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SYNOPSIS OF THE BRITISH BASIDIOMYCETES

A DESCRIPTIVE CATALOGUE OF THE DRAWINGS AND SPECIMENS IN THE DEPARTMENT OF BOTANY BRITISH MUSEIM

BY

WORTHINGTON GEORGE SMITH, FLS

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PREFACE

IN 1905 the Trustees acquired the manuscript descriptions drawn up by Mr Worthington G Smith, when preparing the fine series of coloured drawings of British Fungi which are exhibited in the Public Gallery of the Department of Botany. The descriptions were accompanied by line drawings illustrating the characters of each genus. In 1907 the Trustees gave permission for their publication in the form of the present Handbook, which it is hoped will prove a useful introduction to the study in the field of the larger British Fungi. Of the numerous introd ed species all that have appeared in the open air are included, but those occurring in greenhouses and stoves are omitted, except those which continually reappear, and those which stray into gardens

Mr Smith himself and Mr W E St John Brooks, Assistant in the Department, have given valuable help in the preparation of the book for the press

A B RENDLE

DEPARTMENT OF BOTANY,
BRITISH MUSEUM

October, 1908

SYNOPSIS

OF

BRITISH BASIDIOMYCETES

INTRODUCTION

THE British Basidiomycetes include nearly all the larger British Fungi. They comprise all the Mushroom-like Fungi, practically all the larger woody corky and gelatinous fungi of trees stumps and fallen branches (Hyminomyatis), the Phalli, Puff-balls and their allies, and a small number of Truffle-like subterranean species (Gasteromyatis). The term Basidiomycetes is used in the sense in which

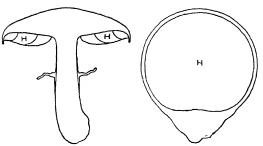


Fig. 1—Section through Mushroom showing exposed hymenium H One half natural ... e

Fig 2—Section through I uff ball showing hymemum (ii) closed in One quarter natural size

it was employed by De Barv, and not with the larger meaning assigned to it by Brefeld, which includes the Rust-fungi or Uredineæ

In the Hymenomycetes the spore-bearing surface or hymenium is exposed during development, as in the Mishroom (fig. 1), in the Gasteromyates the hymenium is closed or hidden within the substance of the fungus until maturity, as in the Puff-ball (fig. 2)

The larger Fungi not described in this work are a few of the Ascomycetes, including the Morel and its allies, the true ascusbearing Truffles and a limited number of Cup-fungi

The microscope is unnecessary for the determination of the greater number of the Basidiomycetes, nearly all are large and can be satisfactorily examined by the unaided eye or with the assistance of a handlens. A few forms found under Family iv Thubpheracae, as Solema and Cyphella, superficially resemble certain of the Ascomycetes, as Peziza, but with a little experience even obscuit forms.



Fig. 3—I leurotus ostreatus Quél 4 basidium B sterigina C spore × 750

may be easily determined with the aid of a simple lens. In some genera of the *Thilipher accu* a microscopic examination of the hymenium is sometimes desirable.

The Basidiomycetes are highly plastic and variable. No one species is constant in all its characters, and a single example seldom wholly accords with any other single example of the same species. Examples which appear to be intermediate between allied, and sometimes between not allied, species are friequently muth. About one species in ten is perhaps furly well and distinctly marked, but all species will at times present aberrant characters. Any one character is liable to fail in the determination of species, therefore, all the characters must be studied together.

The Basidiomycetes are so named on account of the spores being borne on more or sess club-shaped cells named basidia (fig. 3)

They are commonly borne in fours, on slender usually short threads or supports named steriginata. In rare instances, however, the basidium bears two spores or perhaps only one, in these cases the normal number of four is sometimes reverted to in well-developed examples. In some species of the Trimellinaccae the spores are septate, and in some Gasteromyales six or even more spores are produced on a basidium

The spores are usually smooth and simple or composed of one cell, they are sometimes echinulate or warted The commonest form is oval or round, a few are multiangular They are of microscopic size, varying from about 18μ to 3μ in length, and of various colours

The character of the basidium with its four naked spores is one of great importance, as it separates the Basidiomycetes from the Ascomycetes. In the latter the spores are borne usually in a series of eight, within microscopic transparent elongated colourless sacs named $as\alpha$ (fig. 4), the asci when ripe open at the apex and the spores escape

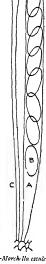
In an examination of the spore-bearing surface or hymenium of

the Basidiomycetes three kinds of cells are met with,-the ordinary barren cells of the hymenium, the basidia with the spores, and

certain other large cells named cystidia The last-named are sometimes very small or practically absent, as in Clavaria, in other genera they are very large, as in Coprinus (fig 5), Hymenochæte (fig 6) and Pentophora

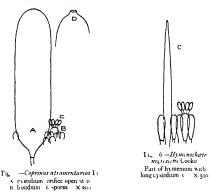
The more highly developed Basidiomycetes as a rule bear white or slightly tinted spores, the lower or dung-borne species usually produce black spores In most instances the spore-colour is permanent, but in some species it vanishes and leaves the spores hyaline The colour of the spores is often used as a generic or subgeneric ch tracter, the tint often, but not invariably, gives the distinctive hue to the mature hymenial surface. It is readily seen by placing examples with the hymenium down wards upon a piece of glass on which the spores will be deposited

At maturity, the spores of the H_1 meno mycetes drop from the sterigmata and are free in the air, but in the Gasteromycetes the outer coats become naturally ruptured before the spores can escape In the Phallordace the sporterous surface is at first enclosed in a veil (volva), and even after the elongation of the stem, the cap (pileus) is covered by a very thin, almost invisible Fig 4-Morchilla esculenta Pers membrane, when the spores are ripe they A ascus B spore are enveloped in mucus which runs down



from the upper parts of the fungus to the lower, where there is a gelatinous stratum, the spores may possibly germinate in the decomposing gelatine. In the fetid species the odour attracts swarms of flies and sometimes small beetles to the sporiferous mucus, which they eagerly devour On flying away the insects disseminate the spores, which have been seen to germinate after having passed through flies In the Lycoper dacate the spores are at first enclosed in a peridium, and it is only when this is ruptured that they are set free The Hymenogastraceae are subterranean, or nearly so, and the spores must either germinate in the decaying substance of the mother plant or be carried away by larvæ. insects, etc

In germination the spores open at one or both ends, a transparent germinal tube emerges (fig 7) and forms strands, threads or hyphæ of cellular mycelium. The strands branch and coalesce with other hyphæ belonging to other spores of the same species In rare instances, as in the *Trimellinaca*z, the spores germinate and



produce a rudimentally mycellum (promialium) bealing spores, from which only is a true invocellum produced. The mycellum



Fig 7 — I sathyrella prona Cill Spores germinating × 350

or finely matted growth produced by germinating spores is the "spawn" of gardeners it is usually white in colour, but is sometimes tinted in one or two instances it is blood-red. If the mycchium or spawn be placed upon a suitable matrix the fungus will, under favourable circumstances, be reproduced. The spores of some Basidiomy externs are known in the

falling from the hymenium No sexual organs are known in the Basidiomycetes

The season of growth is usually the autumn, but a considerable number appear in the spring and summer, and some continue to grow till late in the autumn or even early winter. Many species of Marasmus will, after being quite parched in dry weather, revive in rain, and several of the late growing species of Chlooyhi and Collybia revive after being frozen. There are two crops of some Basidio mycetes every year, one vernal and the other autumnal, this is the case with Copyrius atramentarius, of which the first crop appears after the rains of April and May, the second in September or October. If vernal examples are gathered and buried with decayed wood or beside decaying posts a crop of perfect fungi will appear in September or October. There are sometimes three crops of Copyrius micaceus in one year. If living plants of Copyrius

radiatus are placed upon manure heaps the spores will germinate at once and reproduce the plant in a day or two

Some of the perennial Polyporacca continue to increase in size for many years. The years of growth can be counted in the annual flesh-strata, which are easily seen when sections are made. Mycelium will continue to live in wood or in the ground for an apparently unlimited time. I have known a "fairy-ring" of Chitocybe gestropa on Dunstable Downs for forty or more years, which under favourable conditions of light can be seen at a distance of more than a mile. The diameter has not altered much during the time. I have known it, for sometimes it grows inwardly for several years and then again outwardly.

Most species are terrestrial and grow on or just below the ground, a large number grow on dead leaves and twigs, others on dead wood, bark, branches and trunks. It is unusual to see fungi on healthy trees, the majority of the larger fungi so commonly seen growing on tree-trunks in parks, woods and forests are "wound parasites," which germinate upon a damp injured place and grow parasitically upon the living host. Rootlets are often attacked by mycelium which at length develops as a perfect fungus at the tree's base, as in Fomes annosus of in other cases trivels further up the trunk as in Γ ignarius, and other species Polyporus Schweinitzu is well known to be highly destructive to conifers, Pinus Strobus, P sylvistris and Larix europea especially suffer Many other species of *Polyporus* are more or less destructive Amongst the Agaricacia, Armillaria millia is one of the most destructive, it often grows upon living roots, not uncommonly under the shade of large trees, the growth of the fungus being limited to the extent of the root-growth of the trees. One form of its mycehum, named Rhizomorpha, lives percantally beneath the bark of trees It destroys tice-roots, chiefly those of conifers, but sometimes attacks plum and other trees, it also appears on squared timber, when used for bridges, in mines, etc

Certain species grow parasitically upon other Basidiomycetes Volvaria Loveiana grows upon the pileus of Clitocybe nebularis, two species of Nyctalis grow upon the pileus or stem of species of Russula and Lactarius, and Boletus parasiticus grows from the base or side of Schroderma zulgare Some species are almost peculiar to human habitations Coprinus radians grows upon plastered walls, C aphthosus commonly appears in kitchens and cellars, Merulius lacrym ins (Dry Rot), Poria hybrida and Polyporus destructor are almost entirely confined to the interior of houses and ships, and Merulius corium often grows in dwelling-houses Coprinus domesticus is usually seen in or close to human dwellings. C comatus and Cortinarius urbicus commonly grow close to houses or to places where human beings resort. Many species grow on burnt wood and earth, as Clitocybe fumosa, Collybia atrata, C ambusta, Flammula decipiens, F sapinea, F carbonaiu, Lepiota Friesii, Cantharellus radicosus, Polystictus cinnamomeus, and many others

The taste of the majority of the Basidiomycetes when raw is watery-insipid, many are practically tasteless or mild Some when uncooked have a pleasant nutty flavour, as Psallota campestris (mushroom) and Lepiota procera Several are bitter, as Boletus felleus, others are bitter-nauseous, as Hypholoma fasciculare, and many species of Lactarius and Russula are very acrid or bitter acrid

The odours are most diverse Chlocybe fragrans is very sweet and recalls Mellot, as does also Hydnum gravolus, Codora is fragrant of Woodruff or Vernal Grass Trametes suaveolens, Todora, Lactarius glyciosmus and Clavaria stricta are also very sweet-scented. One variety of Cantharillus cibarius smells strongly of apricots, and Chlocybe geotropa is almond-scented. Many smell strongly of onions or garlic, the best known examples being different species of Marasmus. Fetid and disgusting odours are common, a familiar instance is that of thyphallus impudicus. The odours possibly serve some purpose at present unknown. The carrion-scented species attract swarms of carrion-feeding insects which greedily devour the highly fetid, soft, sponiferous material of the Phalloulaace.

The evudation of fluid, the so-called milk, when the stem is broken, is a remarkable character of some species. Michae galopus and M. lactae contain a white, M. crecata and M. chelidonia a yellow, M. hamatopus a dark purple-red, and M. sanguinolenta a red junce, Lactarius deliciosus exudes an orange-coloured and L. sanguifluis a deep blood red junce which, on exposure to the air, quickly becomes green. The milk of L. chrysorrheus and L. thengalus is sulphur-yellow, that of L. acris is at first white, then reddish. The milk of L. vividus is white and quickly changes to violet that of L. serobiculatus is first white, then sulphur, that of L. fuliginosus is white, then suffron. The stem of Marasmus ravicosus is filled with dark blood-red juice, which flows when the stem is bruised or broken.

Some species of Agaricaaa, as Hypholoma lacrymabundum and H viclutinum, have "weeping gills", in mature examples drops of fluid may be seen sprinkled all over the surface of the gills which, when examined under the microscope, are seen to be charged with spores and cystidia. The hymenium of the dry rot fungus, Merulius lacrymans, is usually covered with globules of exuded moisture, Polyporus dryadius is often seen in the same condition

The Basidiomycetes as a rule do not exhibit brilliant colouring, but there are remarkable exceptions, the most striking being scarlet and crimson, as in Amanita muscaria 1 cllow, orange blue, purple, and white also occur, also rarely green and blick, but the majority are pallid, watery-brown, brown, greyish or buff The brown and buff colours of Agarics often cause the fungi to be overlooked when growing amongst dead leaves

The Mushroom is a highly nitrogenous plant and contains a con-

siderable amount of fat The following are its chief constituents, as given by Professor A H Church —

	In 100 parts	In 1 lb		
Water	90 O	14 oz 175 gr		
Albuminoids etc	5 0	0 07 350 gr		
Carbohydrates etc	3 8	0 oz 266 gr		
Fat	7	0 oz 49 gr		
Mineral matter	5	0 oz 35 gr		

The chemical composition of the Champignon, Marasmus oreads, is nearly the same Several species are known to be highly poisonous in all stages of growth, both cooked and uncooked, those without unpleasant taste are the most dangerous, as Amanuta phalloids

Specimens of fungi for determination must be quite perfect and fresh examples past initiarity are useless. Young specimens should be secured whenever possible, as some characters which are then very obvious vanish as the plant advances to full growth

In the descriptions which follow the sequence is almost identical with that of Friess Hymenomyatis Europea, 1874. This sequence has been almost universally approved, and has been followed in this country by Berkeley, Cooke, Stevenson, and in my supplementary volume to Berkeley solutions of British Fungology. The large collection of drawings, prints and dried examples of British Busidiomycetes in the Herbarium of the British Museum is arranged on the same plun.

The number before each species corresponds with the number in my scries of coloured drawings of British Fungi exhibited in the Public Gallery of the Department of Botany, British Museum

The letters $a \ b \ c$ used in the text refer to the drawings and specimens in the British Museum. The letter a indicates that there is a drawing of the species in the Public Gallery, b that there is a drawing and c that there is a specimen in the Horbarium.

The specific descriptions contain the salient distinctive characters, which must be used with the generic and sectional characters. If fuller descriptions of the Hymenomycetes are desired, Friess Hymenomycetics Europea (1874) and his Monographia Hymenomycetum Sucaæ (1857) may be consulted, the Gasteromycetes are described in greater detail in Massice's Monograph of the British Gasteromycetes (1889) and the same uithor's British Fungus Flora, vol 1 (1892) Saccardo's Sylloge Fungorum (1882–1908) may also be consulted

The names of species obviously introduced are printed in small capitals, introduced genera are distinguished typographically

The text was prepared and checked at the time when the drawings were made, when living and dried examples, drawings, plates, printed descriptions, and notes were before me

The dimensions give the typical size in inches of well-developed examples as found in Britain, for which those given by Fries are

sometimes very misleading. The numerals represent the diameter of the pileus, the height from the base of the stem to the top of the pileus, and the diameter of the stem near the middle. The stem in most of the stem-bearing Basidiomycetes is cylindrical or slightly attenuated upwards, this character is not reiterated in the descriptions, where departures from the type only are given. In stemless species, which are generally excentric, the longer diameter of the pileus is given

The notes as to taste and odour are generally original, supplemented by the observations of others, those as to colour have in most instances been drawn up from living examples, supplemented by printed descriptions and by reference to characteristic coloured drawings and plates

The habitats and dates of appearance are from my own notes, and from observations of other British botanists, in a few instances no habitat or date is on record

Spore measurements have been omitted as untrustworthy, in many cases authors have measured immature spores from young plants, in others it is certain that authors have misnamed the fungus from which the spores have been taken

I he following abbreviations are employed -

HI MENOMY CETES

A	Annulus	1 ι	Papilla.
Br	Bristles	Pı	l'ileoli
CI	Clubs	Po	Pores
Co	Cortina	-	
G	Gills	Scl	Sclerotium
Gr	Granules,	50	Setæ
Hym	Hymcnium	Sp.	Spines
H	Hymenophore	St	Stem
Myc	Mycelium		
P	Pileus	Sub	∖ubiculum
•	circ circumference	T	Γuhes
	gr granules	1 e	Teeth
	marg margin	T ub	Fubercles
	mid middle	1	\ eil
	sc scales	₹ e	Veins
	sq squa mu les	I o	
	um umbo		Volva
	a none	,	/one

The stem is supposed to be cylindrical or nearly so unless otherwise described, and simple if without volva and annulus

GASTEKOMY (LIES

Cap	Capillitium	Ex	Fxoperidium	Per	Peristome
Col	Columella	Fun	Funiculus	Peri	Peridiolum
Cor	Cortex	Gl	Gleba	Kec	Receptacle
End	Endoperidium	Pe	Peridium	Vo	Volva
	znaopena	Ped	Pedicel		

ORDER I HYMENOMYCETES

Basidia and spores exposed in the mature plant (fig 8)
Families I-VI

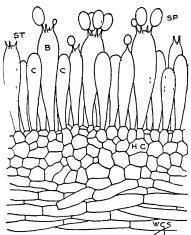


Fig. 5 — Pandia and spores of Mushoom. I sulliota campestri. Quel B. busidia. 51. spores. 6. cassidia or burren basidia. T. sterigmata. B.C. hymenial cells. — X. 1000.

- I $A_{GARICACE}$ Hymenium spread over the surface of radiating gills or lamelle Genera 1-58
- II POLYPORACEE Hymenium lining the surface of small pores or tubes (renera 59-69
- III HYDNACLE Hymenium spread over spines or protuberances
 Genera 70–79
- IV 1 HEI EI HORACE E. Hymenium unilateral, spread over a firm smooth or corrugate under or upper face Genera 80-90
- V CLAVARIACEÆ Hymenium spread over the surface of smooth, simple or branched clubs in *Sparassis* over a large sponge-like mass of coalescing branches Genera 91–96
- VI Fremellinace Hymenium spread over a smooth gelatinous surface Genera 97–106

ORDER II GASTEROMYCETES

Hymenium concealed within a peridium until the spores are mature (fig 9) Families VII-XI

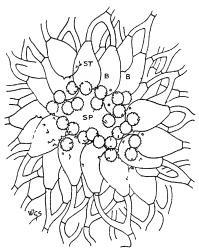


Fig. 9—I isidia and spores of Schroderma ulgare Fr B basidia Si, spores ST sterigmati × 400

- VII PHALLOIDACEA Pilcus and stem or latticed receptacle at first enclosed in a globular peridium with a gelatinous stratum Peridium at length opening at the apex and the gleba extended on a stem or lattice Genera 107–110
- VIII LYCOPERDACE. Peridium globular, with a capillitium, at length opening for the dispersion of the spores

Genera 111-116

- IX SCLERODERNACEÆ Peridium globose, thick, without a capillitium, dehiscing irregularly Genera 117–118
- X NIDULARIACE# Peridium bell or cup-shaped, containing compressed or globose peridiola which become free at maturity Genera 119-122
- XI Hymenogastraceæ Subterranean, peridium without a capillitium, indehiscent Genera 123–128

ORDER I HYMENOMYCETES

FAM I AGARICACEÆ

Hymonium sprend over the surface of radiating gills, the axis a stem, rarely a point, usually central, sometimes lateral. In some forms the young fungus is entirely enclosed in a primary or universal rail (fig. 10 B). During growth, as the stem elongates, the veil is ruptured, the lower portion called the rolva (Vo.) remaining as a sheath round the base of the stem, while the upper portion, still attached to the pilcus, is torn into fragments as the latter expands (v.v.). In some species a secondary or partial veil is also present in the earlier stages, spreading from the upper part of the stem to the edge of the pilcus. This veil is finally ruptured, and prutly persists as a ring or annulus (V) encircling the stem. Contains two-thirds of the whole Basidiomycetes.

KEY 10 THE GENFRA

In using the key for the determination of the genus the following characters must be ascertained — I Colour of the spores 2 Nature of the substance, whether fleshy, putrescent, deliquescent or confaceous 3 Whether the hymenophore is distinct from the stem, or confluent and homogeneous with it 4 Nature of the pileus, whether dry, viscid, silky, etc. 5 Nature of the stem, whether simple, annulate or volvate, and whether it is homogeneous with the pileus, or heterogeneous with a cartilaginous bark 6 Nature of the gills and their attachment to the stem

```
I Spores white
  A Plant fleshy, more or less firm, not deliquescent or
          corractous
    Hymenophore distinct from the fleshy stem
      Pileus bearing warts or patches free from the cuticle
        Stem volvate and annulate
                                                         1 AMANIA
        Stem volvate
                                                        2 AMANITOPSIS
      Pileus pulverulent, smooth or scaly, scales, when
          present, concrete with the cuticle
        Stem annulate
                                                         3 LEHOTA
        Stem simple
                                                        4 HIAITLA
    Hymenophore confluent and homogeneous with the
        fleshy stem
      Stem without cartilaginous bark
        Stem central (some of the plants under 50 are
            stemless)
           Annulate
                                                         5 ARMILLARIA
```

Simple		
Gills sinuate	6	TRICHOLOMA
Gills decurrent	U	I KICHOLOMA
edge acute	7	CLITOCYBE
edge swollen	50	
separating from hymenophore	46	
sof-maning it on a handsoftman	7"	(Group I Lepista)
Gills adnate		
Parasitic on Agarics	51	NYCTALIS
Not parasitic	5	
Milky	48	IACTARIUS
Not milky		
Rigid and brittle	49	Ri ssula
Waxy	47	Hygroi horus
Stem lateral or absent	ΙI	PLEUROTUS
Stem with cartilaginous bark		
Gills usually adnate	8	
Gills sinuate	9	MICELI
Gills decurrent	10	Omphalia
B Plant tough, corraceous or woody		
Stem central		
Gills simple	52	MARASMIUS
Gills branched	55	XLK01US
Stem lateral or absent		
Cills toothed	53	LEVIINGS
(alls not toothed	54	
Gills channelled longitudinally or crisped	56	I kogi 1
Galls splitting longitudinally	57	SCHIZOPHYLLUM
Gills anastomosing	58	LENZITIS
II Spores rosy or salmon colour		
A Stem without cartilaginous bark		
Hymenophore distinct from the fleshy stem		
Stem volvate	12	VOLVAKIA
Stem annulate	13	ANNI LAKIA
Stem simple	14	PLUTEUS
Hymenophore confluent and homogeneous with the	*4	1 DOIDE
fleshy stcm		
Stem central		
Gills adnate or sinuate	15	ENTOLOMA
Gills decurrent	16	
Stem lateral or absent	20	CLAUDOPUS
B Stem with cartilaginous bark		
Gills decurrent	19	ECCILIA
Gills not decurrent	•	
Pilcus scaly	17	LEPTONIA
Pileus papillose, subcimpinulate		
Gills membranous, persistent	18	NOLANIA
Gills subdeliquescent	43	Bolbitius
*** / 1 111		
III Spores brown, reddish or yellowish brown		
Stem without cartilaginous bark		
Stem central		
Stem annulate		
Annulus membranous		7
l errestrial	22	TOGARIA
Growing on wood	24	PHOLIOT 1
Annulus arachnoid, filamentous or evanescent		Conmin andre
Gills adnate, terrestrial	44	CORTINARIUS
Gills decurrent or adnate, growing on wood	27	F LAMMULA

Stem simple With a volva	21	Agamente
Without a volva	21	ACETABULARIA
Gills adhering to the hymenophore and		
Cuticle fibrillose or silky	25	INOCYBE
Cuticle smooth, viscid	26	HEBELOMA
Gills separating from the hymenophore and		
decurrent, stem sometimes obsolete	46	
		(Group 2 I apinia)
(ills decurrent	30	TI BARIA
fulls not decurrent Margin of pileus at first incurved	28	\ aa
Margin of pileus at hist incurved Margin of pileus always strught	20	NATCORIA
Hymenophore free from the stem	23	PI I TEOLI S
Hymenophore confluent with the stem	29	GALERA
Stem lateral or absent	31	CKEPIDOILS
	,	
IV Spores purple, brownish purple, dark purple, or dark brown		
A Stem without cartilaginous bark		
Hymenophore distinct from the fleshy stem		
Stem volvate	32	CHITONIA
• Stem without a volva		
Stem annulate	33	PSALLIOTA
Stem simple Hymenophore confluent with the stem	34	PILOSACE
Veil normally ring like on the stem	35	STROLHAKIA
Veil normally fibrillose and adhering to the	33	STROTTICKIC
margin of the pileus	36	Hypnolomy
b Stem with curtiliginous bark	•	
Mar, in of pilcus at first incurved	37	PSILOCY BE
Margin of pileus at first straight	38	PSATHYKA
Spores black or nearly so		
Gills deliquescent Gills not deliquescent	42	Coprints
Gills decurrent	45	GOMPHIDIUS
Calls not decurrent	4)	COMMINDICS
Stem annul ite	39	ANTILAKIA
Stem simple	40	PAN LOLUS
Pileus striate	41	PSAIIINKELLA

Genera 1-41 represent the genus Agaricus as understood by Fries who regarded the modern genera as of subgeneric rank only They include species 1-920, and are arranged in five series defined by the colour of the spores as illustrated in the five diagrams (Plates I -V)

The genera which are marked in corresponding positions on the different diagrams are structurally identical, the only difference is in the colour of the spores. For instance, Amantopsis, on the first diagram, has white spores, it corresponds in structure with Volvaria, with pink spores, on the second diagram, with Acatablaria, with brown spores, on the third, and with Chitonia, with purple spores, on the fourth. There is no genus structurally identical with Amantopsis.

in Britain with black spores, consequently this position on the fifth diagram is left vacant

White-spored species represent the highest types and black-spored species the lowest, the pink-, brown-, and purple-spored species are intermediate Amanta is the highest type of the white-spored Agarics. The majority of the white-spored species are terrestrial and more or less persistent, whilst the black-spored species commonly grow on dung and are evanescent

SERIES I LEUCOSPORI Fr

(From the white spores, Gr lcukos, white, sporos, a seed)

Spores white, rarely with a faint shade of ashy-grey, a faint tint of ochre, pale brown or pale greenish, usually oval or round and smooth, rarely slightly spinulose

Genera I—XI

I AMANITA Pers

(Galen's name for certain fungi)

Veil universal, clothy, distinct from the cuticle of the pileus, after rupture, as maturity is reached, remaining as a volva at the base of the stem, with broken patches of its substance frequent on the pileus Hymenophore distinct from the fleshy stem Pileus convex,

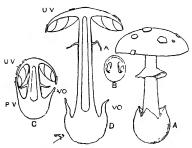


Fig 10—Amanta phallendes Link. One third natural size A perfect plant 1 section of voung plant showing universal veil C section of half grow example showing rupture of universal veil 10 section of mature example t v universal veil 1 v, paital veil, becoming annulus A annulus to volar.

then expanded, not decidedly fleshy Stem central, annulate and volvate Gills free or nearly so, white or whitish (Fig 10)

All the species grow on the ground in woods and uncultivated places A few are edible, others are poisonous or suspicious

Species 1-17

- Volva bulb-like, large, exhibiting a free expanded border in splitting Pileus naked or nearly so, and viscid, except 4a, 4b, and 4c, margin striate, except 4a, 4b, and 4c Gills free or adnexed
- Volt a splitting regularly, its margin closely adpressed to the stem and the detached upper part forming patches or warts on the pileus Gills free 5—9
- Volva friable, broken into small scales or warts, not persistent at the somewhat bulbous base of the stem 10—18
- Veh a rudimentury, floccose disappearing Stem slightly enlarged at the base, not truly bulbous
 14—17
- 1 A virosa Quel (tirus, poison) a b c Wholly white

 P marg lobed, floccose with V St somewhat scaly A large

 Ve lax, wide
 - Posonous, fettd Woods, uncommon Aug-Oct 5 x 7½ x § in Compare 3 This and the next when young greatly resemble the edible mushroom
- 2 A 'phalloides I ink (from the volva as in *Phalloidacea*) a b c P white, yellowish or light, or dark olivaceous St somewhat smooth, white
 - Poisonous, nurcotic, acrid Odour when young, strong, not disagreeable, it length fetid Woods, frequent http://www.apr.vital.cases.of/poisoning_on/record
- 3 A verna Quel (1117, spring) a b Wholly white P marg not lobed, not floccose St floccose A not large
 - Vo somewhat adpressed to stem
 Probably poisonous Odour not stron, but unpleasant Woods, uncommon
- My-Oct 3 × 5 × g in Probably a vir of 2 Compart 1

 4 A mappa Quel (from the resemblance of the volva to a
- napkin, mappa) a b c P dry, patched with remains of Vo, white to pale yellowish-buff
 - St somewhat smooth, white

 Poisonous, fetid Woods, frequent Usually small Aug-Nov
 3 × 34 × 1/11 Compare 12
- 4a A porphyria A & S (from the colour of the pileus) $a \ b$ P warm brown or purplish-brown, marg smcoth SI slightly scaly below, whitish A distant
 - Odour nore Woods, pine Sept 91 × 31 × 8 in
- 4b A recutita Gill (from the smoothly cut edge of the volva) a P sometimes umbonate, dry, glabrous, pale or vinous-umber, marg smooth St slightly scally below, white, becoming faintly brownish A distant Vo more or less adpressed Wood, pine Sept 61 × 48 × 8 in
- 4c A aureola Gill (from the golden colour of the pileus) a b c

 P slightly umbonate, bright yellow or orange-yellow, marg

smooth St floccoso-squamose, white A superior, large, spreading

Woods, under birches Scpt 3½ × 7½ × ½ in

- 4d A citrina Pers (from the lemon-coloured pileus) δ
 P convex, obtuse, brassy-yellow, with white warts St hollow, white A large Vo imperfect G free, broad, white
 Woods Oct 44 × 4½ × 1
- 5 A musearia Pers (from its former use as a fly-poison, musea, a fly) a b c
 - P scarlet or orange, rarely yellow, brown or liver-colour, marg slightly striate St white, rarely yellowish Vo bulb-like, large Poisonous, narcotic, acrid Woods birch, fir July-Nov 7 × 9\frac{3}{2} × 1 in Compare brown form with 6
- 6 A pantherina Quel (from the markings of the pileus) a b c P viscid, pale or dark brown, marg striate St whitish Poisonous Woods and pastures, frequent July-Oct 4 x 5 x ½ in Compare 11
- 7 A excelsa Gonn & Rab (excelsus, tall) a b c
 - P viscid, papilloso-wrinkled, brownish, marg striate St brownish-white
 - Solitary Poisonous Taste not unpleasant Woods, chiefly beech and birch, frequent July-Oct 4⅓ x 5½ x ⅓ in
- 8 A strobiliformis Quel (from the resemblance of the scales of the pileus to the scales of certain fir-cones, strobilus, a pine cone) a b c
 - P white, then ashy-brown, covered with large sc , marg even St whitish
 - Said to be clible. Taste and odour at first slight, becoming disagreeable. Open places in and near woods , rare. Pileus sometimes 12 in in diam luly–Sept. $8\times 6\frac{1}{4}\times 1\frac{1}{8}$ in
- 9 A solitaria Secr (from its solitary habit) ab White or buff-white P marg even St brownish-white Vo forming an obconic bulb, base rooting
 - Solitary Laste insipid On the ground, damp places Sept $6 \times 5\frac{1}{2} \times 1\frac{1}{8}$ in
- 10 A rubescens Pers (from the flesh becoming sienna-red when broken or bruised) a b c

P reddish-sienna, light to dark St pale sienna-red

- Edible , Golmelle of continental markets laste not unpleasant , odour strong Woods common Commonly much exten by larvæ There is a white variety $June-Nov 5\frac{1}{2} \times 5 \times 1$ in Compare 14
- 11 A spissa Opiz (from the small crowded warts, spissus, crowded) a b P smoky-brown or grey, with ash-coloured warts St concentrico-squamulose, obconic at base, rooting, whitish

Woods, mixed, uncommon July-Oct $4 \times 4\frac{1}{4} \times \frac{5}{8}$ in Compare 6

- 11a A carlosa Gill (from the carious stem) a b
 - P soft, even, brown, whitish-brown, or dark grey, unequally clad with thin, mealy, white patches and clouds St fragile,

somewhat enlarged below, white, pale umber and brown, scaly at base G adnate then seceding and free

Suspected poisonous Woods Sept $4\frac{7}{8} \times 5\frac{7}{8} \times \frac{4}{8}$ in Closely allied to 11

12 A nitida Fr (from the shining pileus, nitidus, shining) a b

P whitish, cream or whitish-buff, rurely yellowish or olive, warts brownish St squamulose, white to buff-white

Woods Aug 4 x 4\frac{1}{4} x \frac{5}{8} in Compare 4

13 A aspera Pers (from the rough pileus) a b c

P whitish or dusky-olive, crowded with small, pointed waits St white

Poisonous Taste not unpleasant odour strong Woods, beech, fir , uncommon June-Nov $3\times 3\frac{1}{2}\times \frac{3}{8}$ in

14 A magnifica Sacc (magnificus, splendid) a

P whitish, pullid-tan or sienna-brown, floccoso-spotted, marg sulcate St reddish-white G adnato-decurrent Flesh white, tawn, when broken

Woods, fir, beech, rare July-Oct 4 × 4½ × ½ in Compare 10

15 A arida (sill (aridus, dry) a (sreyish

P soon plane, marg sulcate St subglabrous, white A distant G adnexe-free or adnexed Flish white

Plantations, birch Sept -Oct 3 × 3½ × § in

15a A junquillea Quel (from a functed resemblance in the colour of the pileus in some examples to the flowers of the jonquil) b

P campanulato-convex, viscid, buff with paler marg, clad with the greyish remains of the V, marg deeply striate, white St hollow, villous-scalv, white, whitish or pale yellowish, pale olive at base A superior, membranous, partly appendiculate at marg of P in young examples Vo marginate, at length torn, white, becoming brown at the edge G crowded, adnate with a tooth or adnesed, broader in front, white to faint yellowish ivory

Woods Spring and autumn 41 × 51 × 8 Compare 20

16 A megalodaetyla Sace (from its tall stem, Gr megas, great, daetulos, a finger) a c

P reddish-grey or brownish, marg not sulcate St solid, white A large G free, at length red, not olive-tinged

Odour strong Woods Oct -Nov 4 x 5½ x g in Allied to 17 and to Lepiola

17 A lenticularis W G Sm, Agaricus Inticularis Lasch (from its lentil-shaped stem) a

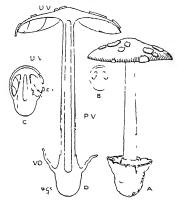
P tan or buff, marg not sulcrate St solid or slightly stuffed, tan-white A large G free, sometimes faintly olive

Odour mouldy Plantations, mixed Oct $4\frac{1}{2} \times 6 \times 7$ in Allied to 16 and to Leptota

II AMANITOPSIS Roze

(From its relationship to Amanita)

Veil universal, clothy, distinct from the cuticle of the pileus After its rupture, as maturity is reached, it remains as a volva at the base of the stem and as broken patches on the pileus Hymenephore



distinct from the fleshy stem *Pileus* convex, then expanded, not decidedly fleshy *Stem* central, volvate, simple *Gills* free, adnate in **20**, white or whitish (Fig. 11)

All the species grow on the ground

Species 18-20

18 A vaginata Roze (from the volva τ agina, a sheath) a b c P brown, marg sulcate \(\forall \) white or pale brown \(Vo \) large, free, \(\lambda \) v, she thing within

Said to be edible, but sometimes produces perspiration and illness. Tasteless or inspid when raw, but cool ing brings out a strong ment hi e flavour, oddur none. Woods common Sept. Nov. 4½×6½×8 in. There are several varieties, noods. W. G. Sm. (Ananta ne also Green) is white

18a A fulva W G Sm Asancus fulcus Schæff (from the bright reddish-tawny coloui) b

P sicnna, mid dark, sometimes almost black, marg striate or sulcate St squamulose, pale sienna Vo large, free, lax, sienna

Poisonous Woods, birch June-Sept 3½ × 6½ × g in Amanita spadicea Pers is a brown form of this

- 19 A strangulata Roze (from the transverse constrictions of the stem) $a\ b\ c$
 - P mouse-colour, brown or yellowish-brown, marg sulcate St brownish-white Vo not large, adpressed to St Flesh whitish, tawny when broken

Inste sweet, odour none Woods, uncommon May-Oct $6\frac{1}{2} \times 8 \times \frac{7}{8}$ in

20 A adnata Sicc (from the adnite gills) a b c

P firm, not brittle, buff-yellow, marg not sulcate St minutely fibrillose, buff-white G crowded Vo not large, lax, irregulally torn, pubescent

Woods and plantations, oak, holly , uncommon Oct $3 \times 3^{\frac{3}{4}} \times \frac{1}{2}$ in Compare 151

III LEPIOTA Quel

(From the scaly pileus and stem Gr lepis, a scale)

Viil universal, concrete with the cuticle of the pileus, breaking up in the form of scales granules or silkiness. Hymnophore distinct from the fleshy stem. Pileus never compact, often very thin, at first plane,

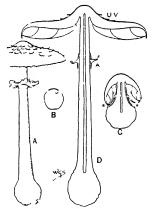


Fig 12—I spota pri era Quel One quarter not size a perfect plant is set tim of song example howing universal vell C section of half grown eximple showing at ** rupture of vell is section of mature example showing it a annulus free from the stem it is remains of universal veil

then scaly, granular, silky, smooth or viscid Stim central, annulate, somewhat cartiliginous, firmer in texture than the pileus Gills free

55 - 59

or nearly so, except 46, 47, and 50 Spores normally white, sometimes yellowish, greenish or green (Fig. 12)

The species grow mostly in rich grassy places, more often in fields than woods, some occur in stoves and greenhouses

Nearly all are autumnal Some are edible

Species 21—59

A Epidermis dry

- a Proceræ Scales of pileus brown or brownish on a white ground Stem bulbous Annulus more or less movible Gills remote Edible The species are nearly alhed, intermediate forms occur between all 21-25
- b Clypeolariæ Pileus and usually the stim scaly or covered with granules Annulus fixed Gills free Odour, except 29, strong, disagreeable, pungent, sometimes weak 26-37
- c Annulosæ Annulus superior, fixed, somewhat persistent, fugacious in 41 and 42 38-43
- d Granulosa Pilcus and lower part of stem covered with granules Annulus inferior Gills approaching stem, adnate in 47
- c Mesomorphæ Pileus dry, entire, not torn, not usually granular, small, slender 48a-54
- B Pileus smooth, viscid

f Viscidæ

a Procuæ

21 L procera Ouel (procerus, tall) a b c

P umbonate, finely scaly St minutely scaly G subremote
Flesh unchanging white

Solitary or in troops Ldible Taste and odour pleasant, delicate Pastures, parks, gardens, heaths, among bracken, etc , common July-Oct 8 × 103 × 2 in

22 L rachodes Quel (from the ragged pileus, Gr rakos, a ragged garment) a b c

P subglobose, coarsely scaly G subremote, sometimes reddening when bruised *Flesh* changing to saffion-reddish when broken

Gregarious or cæspitose Edib'e Taste and odour pleasant, strong, varying to rank Woods and hedges, fir plantations, greenhouses, common July-Dec 5½ × 6 × 1 in The form puellaris is smaller and shining white Bears the same relation to 21 as the horse mushroom does to the pasture mushroom There is a white variety

22a L prominens Sacc (from the prominent umbo) a b

P sphærico-expanded, strongly and subacutely umbonate, sc imbricate on um, brownish or dull pale ochieous St abruptly bulbous at the base

Edible Fields Oct 83 × 48 × ½ in

22b L permixta Barla (from its mixed characters) a

P campanulato-convex, slightly subumbonate, then expanded, smooth then fibrillose, sc opaque, somewhat pale brown on a brownish-ivory ground, marg sublacerate, white St hollow,

enlarged at base, irregularly scaly, colour as P $\$ Flesh becoming faintly rufous $\$ $\$ membranous, fibrillose, lax $\$ $\$ $\$ $\$ $\$ $\$ free, ventricose, crowded, ivory or faintly flesh-coloured

Odour weak Hilly pastures Autumn $7 \times 4\frac{1}{8} \times \frac{1}{2}$ in With the mixed characters of 21, 22, and 23

23 L executata Quel (from the cracked membrane of the pileus) a b c P semiglobose, slightly scaly, pale buff A less movable than in 21 and 22 Flesh unchanging white

Said to be edible. Taste and odour usually delicate and agreeable, but varying to rank and unpleasant. Pastures and hedge sides, less common than 21 and 22. May-Oct. 4 × 4 × 8 in.

24 L gracilenta Quel (from its slender stem) a b c

P subumbonate, slightly scaly, sc broad, adpressed, pale brown A slightly movable Flish unchanging white

Often cuspitose Tdible Pastures, under beeches, uncommon June-Nov $4 \times 7 \times 3$ in

25 L mastoidea Quel (from the resemblance of the pileus to a breast, Gr mastos) a b c

Poacutely umbonate whitish, so minute, dark brown, varying whitish of brownish-white

Woods Sept -Oct $2 \times 3\frac{1}{4} \times \frac{3}{10}$ in

b Clypiolaria

26 L Friesii Quel (after Elias Fries) a b c

P tomentoso scaly, rich dark brown St pale brown A superior G crowded, branched

Odour heavy, strong Pastures, grassy places, gardens, sawdust, tree roots, cinder heaps Aug –Oct $4\frac{1}{4} \times 4 \times \frac{1}{8}$ in

27 L acutesquamosa Gill (from the sharp pointed scales of the pileus) a b c

P lobed, ochreous buff-brown, sc dark brown St pale brown I large G free, but close to stem, branched

Sometimes crespitose and to be edible a faste mild, insipid, odour slight, mephitic, disagreerble Gardens, yards, hot beds, melon frames, church yards, greenhouses Sept - Nov 4½ × 4½ × ½ in

28 L Badhami Quel (after C D Badham) a b c

P pale crimson-brown, sc small velvety, dark purple-brown St crimson brown or deep purple-brown below, paler above G at length black edgeu Flish changing to saffron-crimson when broken

29 L emplastrum Sacc (from the plaister-like scales) a b

P yellow-buff, sc large, smooth, brown St dull pale buffyellow Flesh pink when broken

Gregarious Taste and odour none Amongst grass under trees Oct $3 \times 3\frac{1}{4} \times \frac{1}{2}$ in

- 30 L MELEAGRIS Quél (from its markings, as of the guinea-fowl, meleagris) a b c
 - P pale salmon, sc minute, almost black St bulbous-rooting, black-spotted, blackish at base G white or lemon-vellow Flesh bright red when broken, reddish when dry

Hothouses, greenhouses, on spent tan, rare May-Oct $2\frac{1}{4} \times 2\frac{1}{4} \times \frac{3}{4}$ in

- 31 L BIORNATA Sacc (from its twofold oinamentation) a c
 - P whitish, sc dot-like, dark red St enlarged below, rooting, red-spotted A red-spotted at marg Flesh white, reddish in St, dark when dry

In hot beds, stoves, melon and cucumber frames July $2\frac{1}{4} \times 4\frac{1}{4} \times \frac{5}{10}$ in

- 32 L hispida Gill (from the rough pileus, hispidus, rough) a b P velvety, rich brown St woolly-scaly, brown below A Flesh unchanging white
 - Odour disagreeable, somewhat pungent of radisnes Woods, chiefly pine July-Oct 3 × 3 × g in
- 33 L elypeolaria Ouel (from the shield-like pileus, clipcus, a shield) a b c
 - P floccoso-scaly, sometimes pale buff, rosy or rufescent St scaly, whitish Flesh white
 - Odour weak or none Woods, stoves, greenhouses Oct Nov 27×31×1 in Colour variable, sometimes wholly white Sometimes very small

Var alba Bres (from the dead-white colour) b

P fleshy, convex, then expanded, broadly umbonate, silkywhite, mid glabrous, marg fibrilloso flocculose, then squamulose, becoming yellowish with age St equal or attenuate downwards, white, somewhat fuscous at base, white-floccose and yellow-spotted below the distant, floccose fugacious white A G free, crowded, white then ochreous Flish white, somewhat yellowish in stem Often forming a spurious second A

Edible On the ground Nov

- 33a L felina Karst (from the markings on the pileus, felis, a cat) a l
 - P subumbonate, black when young, then black-scaly on a white ground St white, often black-scaly below A large, often black dotted

Woods, fir, amongst moss May-Sept $1\frac{1}{4} \times 3 \times \frac{3}{6}$ in

- 33b L nigromarginata Mass (from the black-edged gills) a b
 - P campanulato-expanded, subumbonate, sc umber on a pale sienna-ochre ground St hollow, attenuate upwards, smooth, salmon-white A persistent, membranous, white G broader in front, whitish, edge bordered with dark umber Flesh
 - Amongst grass May $2 \times 2\frac{3}{4} \times \frac{1}{16}$ in Allied to 33, and especially to 33a, but differing from both in the dark edged gills

84 L metulæspora Sacc (from its obelisk-shaped spores, metula, an obelisk) a b c

23

P umbonate, white, um and sc pullid, marg sulcate V appendiculate St pullid or lemon-colour within and without Odour weak or none Woods, fir, amongst moss and leaves, rare Sept-

Oct $1\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{16}$ in

35 L eristata Quel (from the scaly crested pileus) a b c

P white sc and mid bright dark brown St not scaly, brown at base Sometimes red when broken

Suspected poisonous laste strong, disagreeable, odour pungent, mephitic, sulphurous, or like radishes, but novious lields, orchards, gardens, lawns etc, common Aug.—Nov 2½ × 3½ × 1½ in Sometimes red when broken

36 L erminea Gill (from the ermine-like pileus) a b c Wholly white Very fragile

P silky

laste radish like or none, odour slight. Gassy places Sept-Nov $2\times 3^{1}_{h}\times 1^{1}_{h}$ in

37 L MICKOLHOLIS Sace (from the minute scales on the pileus, Gr. mikros, small, pholis, a scale)

P white, so radiating, erect, dark grev or black, marg substruct. St white

Stoves on coco nut fibre 1 × 1 × 1 in

. Annulosac

38 L Vittadinii Quel (after Carlo Vittadini, Italian mycologist) α b Wholly white or whitish

P rough with pointed sc St concentrically scaly A large

Suspected poisonous Groves, pastures, downs June-Aug $5\frac{1}{2}\times 6\frac{1}{7}\times \frac{1}{8}$ in Allied to Imanita

38a L nympharum Karst (from its beauty, as of a wood-nymph) a b P umbonate, covered with large revolute scales, white St white, or faintly buff-stained below G crowded, ventricose, white

Grass places Oct 4 × 47 × 3 in

- 39 L holosericea Gill (from the silky pilcus, (ir holos, entire, serikos, silken) a b c Buff-white Substance very soft
 - P fibrilloso-silky, then even M longitudinally fibrillose, then even A large

Edible Odour none Gardens, cultivated places Sept -Oct 34×24×8 in

- 40 L naucina Quel (from the nut-like flavour, nucinus, of a nut) a b c Buff-white
 - P granular, marg not plicate, appendiculate with V A large G becoming faintly rosy Flish white, usually becoming pale salmon or salmon brownish when cut
 - Somewhat cæspitose Edible Taste mild, pleasant, odour strong Fields, rare July-Oct 5 × 3½ × § in Compare 790

41 L CEPÆSTIPES Quél (from the onion- or chive-shaped stem, cepa, an onion, stipes, a stem) a b c White, pale lemon, or sulphur

P floccose, marg plicate St floccose A fugacious

Gregarious Stoves, frames, pine pits, on tan and leaves, melon beds, etc., common Mar - Sept 2\frac{3}{2} \times 44 \times \frac{3}{2} \times 1000 \text{ Sometimes becomes vincus of the common state of the Mar -Sept 23 × 44 × 8 in Sometimes becomes vinous or claret colour in drying

Var cretacea Sacc P white, sc darker

42 L citrophylla Sacc (from the lemon-tinted gills) a c Lemon-

yellow P sc rufous, um rich brown, marg not crenate or sulcate St squamulose A fugacious $\Gamma lesh$ and G sometimes change to green

On the ground, rare Oct 11 × 13 × 1 in

43 L LICMOPHORA Sacc (from the sulcate pileus a fancied resemblance to a winnowing fan, Gr likmos) a b c

P lemon-yellow A small G remote

Hothouses, conservatories, etc., on the ground, on coco nut fibre Aug -Oct $2\frac{1}{6} \times 4\frac{3}{4} \times \frac{3}{16}$ in Resembles a *Lolbitus* or a yellow *Hygrophorus* times wholly sulphur white At one time regarded as a var of 41

d Granulosæ

44 L carcharias Karst (from a fancied resemblance in the granules of the pileus to the teeth of a dog-fish, Gr karcharias) a b c P Flesh-colour, gr darker A granulose

Taste disagreeable, bitter or none, odour faint to strong of meal Woods, fir May-Nov 2 × 14 × 15 in Sometimes very small

45 L cinnabarina Karst (from the cinnabar or vermilion colour)

P granular, often coarsely so, marg fimbriate with V St granular below A, orange-vermilion

Taste mild Woods, fir, grassy places Sept-Nov 2½ × 2½ × 16 in Aganicus Terreti B & Br is a form of this species

46 L granulosa Quél (from the granular pileus) a b c

P floccoso-granular, red-brown St granular-scaly, red-brown below G slightly adnexed, sometimes adnate

Woods, fir, grassy places, very common July-Nov $2 \times 2\frac{1}{2} \times \frac{3}{10}$ in There is a white var sufescens bace, which becomes red in drying

46a L atrocrocea Mass (ater, black, croceus, saffron) a b

P expanded, slightly depressed, bright salmon-orange, more or less covered with purple brown almost black granular flocci St hollow, attenuate upwards, bright salmon-orange, salmonbrown-squamulose A fugacious G broadly adnate, salmon white Flesh thin, salmon-orange-blown

Oct $1\frac{1}{2} \times 1\frac{1}{4} \times \frac{1}{8}$ in Allied to 46 and 47

- 47 L amianthina Karst (from its pure colour, Gr amiantos, undefiled) a b
 - P ochraceous, mid orange St squamulose, yellow A fugacious G adnate or slightly decurrent, becoming light yellowish Flesh wholly or partially yellow

Woods , uncommon Aug.—Nov $1\frac{1}{2} \times 2 \times \frac{1}{8}$ in A form occurs inter mediate between this and 46

Var Invaduoodue Sacc P hemispherical, tomentose, yellow, G white

48 L polystieta (all (from the many-spotted pileus, Gr polus, many, stiklω, spotted) a b c

P flesh, livid brownish, sc small, red-brown A fugacious G faintly yellowish

Taste insipid, odour none or mephitic, like 35 Grassy places, roadsides, etc, uncommon Sept-Nov 2 × 13 × 3 in

c Mesomorphæ

48a L parvannulata Gill (from the small annulus) a

P umbonate or gibbous, at first slightly pruinose, white to faintly yellowish St fibrillose below A, white A spreading, subpersistent

Pastures Autumn 3 x 12 x 10 in

- 49 L sistrata Quel (from a fancied resemblance to a rattle, sistrum) a o
 - P shining-atomate, whitish, becoming light yellowish or flesh-colour marg appendiculate with V St pruinoso silky, white A fibrillose

Sandy ground amongst grass, gardens, etc Oct 1 x 2 x 1/2 in

- 50 L seminuda Gill (from the partially meal) pileus and stem, simi, half, nudus, naked) a b c Whitish or flesh-coloured P floccoso-mealy then naked, usually white SV mealy and flesh-coloured below, naked and white above G adnate
 - Odour none Woods May-Nov $\frac{6}{8} \times 1\frac{1}{2} \times \frac{1}{16}$ in

51 L Bucknalli Sacc (after Cedric Bucknall) a c White P and St minutely granular, lilac

Odour strong of gas tar Oct 11 × 21 × 1 in

52 L mesomorpha Gill (from its intermediate characters, Gr mesos, middle, morphe, form) a b c Whitish, yellowish, brownish or brown

P and St smooth A entire, persistent

Woods Oct -Dec $1\frac{1}{8} \times 1\frac{3}{4} \times \frac{1}{16}$ in

58 L MARTIALIS Sacc (from its red colour) a b

P fibrillose, ochreous-red, marg striate SI ochreous above, rufous below

Conservatories, tree fern stems March $1\frac{1}{8} \times 1\frac{3}{8} \times \frac{1}{16}$ in

54. L IANTHINA Sacc (from the violet pileus, Gr ton, a violet) a P fibrillose, mid darker, marg not striate Stoves March I x 13 x 3 in

- **54a** L submarasmioides Sacc (from its slight resemblance to a species of *Marasmius*) a b
 - P umbonate, tough, arachnoid-squamulose, white to pale buff, um rufous, marg subplicate, cracking St at first arachnoid-pruinose, white A superior, movable G membranous-tough Flesh tough, rufous within towards base

Low ground at Worcester Scot 1 x 21 x 1 in

f Viscida

- 55 L medullata Gill (from its pith-bearing stem, medulla, pith) a b White or grey-white
 - P umbonate, marg appendiculate with V St with a removable pith
 - Odour of radish or mephitic like 35 Woods, fir Aug -Oct 2 × 3½ × ½ in Compare 58 Kesembles 1188 in stature, colour and viscidity of pileus
- 56 L gloderma Gill (from the clammy pileus, Gr gloios, clammy, do ma, skin) a c
 - P brownish-red St dix, floccoso-scaly below, white oi buff-white Woods, thickets, pine, uncommon July-Sept $1\frac{1}{4} \times 3\frac{1}{8} \times \frac{1}{4}$ in
- 57 L delicata Gill (delicate) a b
 - P thin, subumbonate, rufescent, yellowish, pale rose or brownish St dry, floccoso-scaly below, whitish
 - Taste and odour sometimes rank, like Polyforus squamosus Hothouses, woods, stumps, etc. Sept. 1½ x 1 x ½ in
- 58 L illinita Quél (from the glutinous pileus, illinitus, besmeared)
 - P umbonate white, varying to ochreous or clay-colour with a brown um St glutinous below A well developed on St, or appendiculate at edge of P
 - Woods Aug -Sept 24 × 34 × 76 in Compare 55 and 1188
- 59 L GEORGINA Sacc (after Georgina L Johnstone) a b

White, all parts becoming bright crimson when touched P viscido-pruinose Brown when dry

Taste and odour none On sphagnum in greenhouses May-Nov $I_{\frac{1}{4}} \times 2_{\frac{1}{5}}^{\frac{1}{5}} \times \frac{1}{5}$ in

IV HIATULA Mont

(From the furrows on the pileus, Gr hio, to gape)

Hymenophere distinct from the stem Vail universal, manifest in the granular or powdery covering, and sometimes in the appendiculate margin of the pileus Phius fleshy to membranous Stem central, simple Gills free Spores normally white, sometimes greenish or green as in Lepiota (Fig. 13)

Differing from *Lepiota* in the absence of an annulus, and agreeing in structure with *Pluteus*, *Pluteolus*, and *Pulosace*

Pilcus somewhat fleshy
Pilcus membranous, sulcate

60, 60a 60b, 60c

- 60 H Eyrel W G Sm , Schulzeria Eyrei Mass (after Rev W L W Evre) a b c
 - P broadly umbonate, smooth, pallid, mid minutely granular ochreous, marg incurved, appendiculate with V St smooth,

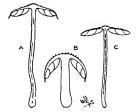


Fig. 1 —A section through Historia Pyrit W C Sm B ditto H licoperd ides W C Sm c ditto H li ynnie B & Br
One hilf natur d us &

even, glabrous, minutely mealy above, pallid G free, narrowed behind, thin, crowded then distant, pale green then deep bluishgreen Spores same colour as G

Gregations laste and odour none. Under spruce firs. Autumn $1\frac{1}{2} \times 2 \frac{1}{2} \times \frac{1}{2}$ in

60a H lycoperdoides W G Sm, Schulzerra lycoperdoides Cooke & Mass (from a resemblance in the pileus to certain species of Licoperdon as 2063 and 2064) a b

P convex, then expanded, soft, buff-ivory, beset with pyrimidal silky-fibrous dark brown warts marg appendiculate St solid, equal, minutely fibrillose, whitish faintly buff-ivory below G somewhat crowded, white Flesh white, pale buff-brown under cuttele of P

laste and odour none. Under cedurs. Autumn 11 x 12 x 11 in

60b H WYNNI & B & Br (after Mrs I loyd Wynne)

P campanulate then plane, subumbonate, pulverulent, white, mid brownish St hollow G free, at first very slightly adnexed, somewhat distant, with a shrivelled appearance as in 41. Has been observed emitting a greenish phosphorescent light

Stoves, on wood

60c H granger W G Sm, Schulzeria granger Eyre (from the original locality, Grange Park, Hants)

P flatly umbonate, cracking into dark green fibrous scales on a white ground St squumose, sq tipped with colour of P G widest in front, minutely denticulate

Cæspitose On soil amongst beech leaves Nov 18 x 28 x 18 in

V ARMILLARIA Quél

(From the annulus, as milla, a ring)

Veil universal, imperfect, remaining as minute, concrete warts or flocci on the pileus and as the scales of the stem Hymenophore confluent and homogeneous with the fleshy stem Pileus usually

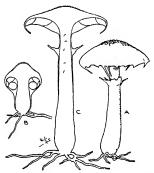


Fig 14 — Armillaria melica Quel One third natural size A, perfect plant B section of young example showing universal veil C section of mature example

fleshy, the surface broken up into small scurfy warts or floccose scales Stem central, of the same substance with the pileus, annulate Gills sinuato-adnexed, adnate or decurrent Spores white, elliptical, smooth (Fig. 14)

The species grow on the ground or on or about stumps Must not be confounded with the last section of *Amanta*

Species 61—72

Stem furnished with a fugitive annulus Gills sinuato-adnexed

61---68

Stem furnished with a sometimes fugitive annulus Gills more or less decurrent 69—71

Stem annulate Gills adnate, varying rounded, sinuate or sinuatodecurrent 72

61 A bulbiger Quél (from the bulbous stem) a b c

P subumbonate, nearly smooth, pale yellowish or buff strongly bulbous, whitish, longitudinally black fibrillose G becoming pale yellowish Flesh whitish

Taste and odour none Woods, pine Oct -Nov $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ in

- 62. A focalis Gill (from the thick clothy annulus, focale, a neckcloth) a b
 - P umbonate, silky-fibrillose, rich yellowish-red, ochre or livid yellow Flish pale yellowish-brown
 - Woods, pine, heaths, bare ground under old laurels. Aug Oct $4\frac{1}{2} \times 3\frac{1}{2} \times \frac{2}{6}$ in The dimensions of the variety called *Gollath* by Fries are $6\frac{3}{4} \times 6\frac{3}{4} \times 1\frac{1}{4}$ in
- 63 A robusta Gill (from its sturdy growth) a b c
 - P convex, nearly smooth, rich brown St attenuate downwards, not scaly, brownish-white Flish hard
 - Odour of new meal, but nruscous Woods and plantations, pine, maple, rise Oct 23 × 2 × 3 in The form major is twice the size of minor, the form illustrated
- 63a A caligata Gill (from a fancied resemblance in the stem to a leg with a soldier's shoe, caliga) b
 - P compact, convex, then plane, tawny, weasel-colour, spotted with adpressed silky sq of the same colour. St solid, zoned with brown sq below the persistent membranous A G emarginate, white
 - Odour strong On the ground in woods, pine Autumn 3\frac{3}{4} \times 3\frac{3}{8} \times 1\frac{1}{8} in Agaricus causetta Barla, is a form of this species
- 64 A aurantia Quel (from its orange colour) a b
 - P convex, innato-squamulose, viscid St very scaly Flesh yellowish
 - Woods pine Oct $2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ in
- 65 A ramentacea Quel (from a fancied resemblance in the pileus to wood-shavings, ramenta) a c
 - P floccose becoming revolute, whitish, then yellowish or brownish, so and punctate mid darker St white, clad with adpressed brown so below A G becoming yellowish Flesh white Odour unpleasant Under pines, uncommon Sept 2½ × 2½ × ½ in the state of triputa
- 66 A hæmatites Sacc (from the colour of the pileus, Gr haima, blood) a
 - P hemispherical, red liver-colour St liver-colour Flesh pale liver-colour, darker at base of St
 - Amongst fir leaves Not If X If X in Allied to Leptota
- 67 A Jasonis Sacc (from a fancied resemblance in the pileus to the golden fleece of Jason) a b
 - P campanulate, granular, golden-yellow mid reddish St golden-yellow
 - Cæspitose Taste none , odour usually none, but sometimes strong Stumps Sept $2 \times 2\frac{1}{4} \times \frac{5}{16}$ in Resembling *Phohota*
- 68 A constricta Gill (from the compact substance, constrictus, compact) a White
 - P convex, silky-smooth Flish becoming pale yellow when bruised
 - Odour of new meal Pastures, sunny and urme scorched places Sept -Oct $2 \times 1\frac{1}{4} \times \frac{8}{8}$ in

69 A. mellea Quél (from the honey-coloured pileus, mel, honey) a b c P smoky yellow-olivaceous, usually dark-scurfy or squamulose, marg striate St often sulphur-yellow at base A usually large and white-floccose, sometimes small or absent G usually yellowish or pale salmon

Solitary, gregarious, or ex-pitose. Laste acrid and disagreeable, odour strong, foxy Sold as an esculent in Continental markets, said by Mrs Hussey to be postonous. On or near stumps tree roots or root fibres, squared timber. July-Nov. 44 × 5 × 4 in 1 stremely variable. Compare 222. Cell but also cone Sacc. is a ringless form.

Var versicolor W G Sm, Agaricus versicolor With (from the change of colour in the stem and gills)

St bulbous, white then brown G yellow-white, then deep redbrown

Amongst grass July 1-4 x 2 x 1 in

30

Var larieina W G Sm Agaricus laricinus Bolt

P flesh-colour, glabrous marg smooth G white On larch

69a A. denigrata Gill (from the very dark or blackish pileus denigro to colour black) a

P subviscid guttato-punctate marg even 57 solid, pallid-fuscous, whitish above A superior entire fugitive, white G pale brown, becoming darker

Solitary or $\{r_{*,a}$ rious On the ground, damp, shady places bases of trunks $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{8}$ in Sometimes confused with 560 which has brown, not white spores

70 A citri (fill (from the citron-colour of pileus) a b

P subumbonate, smooth, sulphur-vellow mary crenulate, becoming white St whitish, reddish-brown below

Cæspi osc Odour of new meal Stumps Sept 2 x 3 x 1 in

71 A subcava Gill (from the partially hollow stem carus, hollow) a
White

P umbonate, thin mid brownish

Woods, pine Nov 2 x 3\frac{1}{2} x 1\frac{1}{2} in Allied to Lepiola

72 A. mucida Quel (from the slimy pileus) a b c White P hemispheneal, radiato-wrinkled mid sometimes faintly brownish St externally cartilignous G broad, mucid On beeches Aug. Nov. 34 × 6 × ½ in

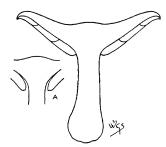
VI TRICHOLOMA Quel

(From the hairy, silky, or downy covering of the pileus, best seen in young examples - Gr - three, a h ur, loma, a fringe)

Val universal, imperfect, manifest in scales, flocer, fibrils or down, which adhere to the margin of the pileus in infunes, sometimes obsolete or nearly so *Hyminephine* confluent and homogeneous with the fleshy stem *Pileus* usually convex and fleshy, never umbilicate *Stem* central, fleshy, simple, with cartilaginous bark *Gills* sinuate, sometimes separating from the hymeno-phore (Fig. 15)

31

The species, except 91, 98 and 149, grow on the ground, the larger usually grow in upland woods, the smaller in pastures Mostly autumnal, some late, section Guttatæ is usually vernal Many have a pleasant odour of meal, a few have a disagreeable odour, some are edible, a few suspicious or poisonous Species 73—452



hig 15 - Section of Tricholoma personatum Quel
One third natural size
The separation of the stem from the hymenophore is
shown at a

- A Pileus viscid when damp, pubescent, fibrillose or scaly, not scaly torn Stem fibrillose Flish, except 77, not hygrophanous
 - a Limacina Pilius fleshy Stim solid, except 73a, 76, and 79
 Gill's not changing colour or becoming rufescent 73—79
 - Gills changing colour usually to rufescent, commonly redspotted $\bf 80{-}89$
 - b Genumæ Pileus torn into scales or fibrils, not viscid or hygrophanous, moist in 94 Taste sometimes bitter and disagreeable Odeur, except 93, generally not unpleasant or none
 - Gills, except 94, not changing colour, or becoming rufous or black-spotted 90—95
 - Gills rufescent or becoming grey, usually marked with rufous or blackish spots 96—101
 - c Rigidæ Pileus, except 106, punctato-granulate or broken up into smooth squamules, not viscid, scal)-floccose or fibrillose Flash in stout species critilaginous-hard, in thin species fragile Odour of the majority of the species unpleasant
 - Gills unchanging white or becoming hydine-whitish, except 103, which often becomes reddish 102—108
 - Gills changing colour, rufescent, or becoming ashy or spotted

 109—112

d Sericellæ Pileus smooth, dry, silky, never scaly, moist or viscid, flocculose in 121

Gills broad, somewhat thick, subdistant, except 115 Odour strong, fetid 118-116

Gills narrow, thin, crowded Odour none, except 119

117---121

B Pileus smooth, moist in wet weather, not viscid, downy or scaly. Flesh soft, spongy, watery, hygrophanous

e Guttatæ Pileus thick, fleshy Stem obese, solid Odour pleasant Usually vernal, often growing in troops, or cæspitose or forming large rings

Gills whitish

122-124 125 -- 127

Gills changing colour, rufescent or smoky

f Spongrosse Pileus obtuse, smooth, moist, except 133, not hygrophanous Gills sinuato-decurrent Often late autumnal Usually growing in troops Must not, on account of the sinuato-decurrent gills, be confounded with Chitocibe

Gills whitish

128-134

Gills changing colour

135-142

g Hygrophanæ Pilius hygrophanous, changing colour on parting from its absorbed water Gills white or faintly brownish, unspotted 143--148

Gills becoming violet, grey, or smoky

149--- 152

a Limacinæ

73 T equestre Quel (from its being the handsomest of the group. coues, a knight) a b c

P gibbous then expanded, sulphur-olive or ochraceous streaked olive-brown or olive-purplish St sulphur olive, sulphur-white within G sulphur-olive

Taste pleasant or none, odour none Woods, fir, uncommon Aug - Nov 4 X 23 X I

78a. T coryphæum Gill (from its position as type of group, Gr koruphaios, a leader)

P white, shaded sulphur-white or sulphur, punctate virgite with dull purplish scales St equal to obelievite, white, shided sulphur-white G crowded, white, edged or clouded pale sulphur

Under beeches Nov 21 × 4 × g m

74 T sejunctum Quel (from the gills, separated from the stem. sejunctus, separated) a b c

P at first umbonate, buff or yellow, streaked brownish or purplesooty St white, clouded pale yellow G white

Taste disagreeable, bitter, odour strong of runcid meal Woods, chiefly pine, uncommon Sept -Nov 41 × 43 × 7 in

- 75 T portentosum Quél (from its variability, portentosus, strange) a b c
 - P unequal, slaty brown, black-fibrillose, mid darker St white or greyish G somewhat distant, white, pale grey or yellowish

Solitary, gregarious or cæspitose Taste mild or somewhat nauseous, odour none Woods, fir, frequent Aug -Nov 4½ × 3½ × ½ in Pileus some times 8 in in diameter Sometimes springing from an involved mass of thick cord like mycelium

- T fueatum Gill (from the dyed appearance of the pileus, fuco, to dye) a b c
 - P yellowish or palest yellow, streaked brownish-buff or pale slate St yellowish, sometimes white above and below, grey or blackish-squamulose or fibrillose G whitish

Woods, chiefly pine, frequent Aug -Nov 31 × 31 × 11 in

- 11 T quinquepartitum Gill (from the pileus being supposititiously five-lobed the chiracter does not however belong to this species) a b Somewhat hygrophanous
 - species) a b Somewhat hygrophanous

 P yellowish-buff, mid darker, unstreaked St ivory-white, not struamulose G white

Taste mild, odour none Woods, pine, rare Oct 33 x 41 x 1 in

- 18 T resplendens Karst (from its brightly shrining appearance) a b Shining white
- P sometimes very faintly stained yellowish or brownish
 - Gregarious Taste and odour pleasant Woods, beech, hazel, cc , frequent Sept –Oct $2\frac{3}{4} \times 2\frac{5}{8} \times \frac{1}{2}$ in Kesembles 1188 in general appearance
- 19 T spermaticum Gill (derivation obscure) a b White

P sometimes cream or faintest ochre-white G coarsely notched Poisonous Odour strong like tallow, varying to cucumber, but stinking Woods, fir Oct $3\frac{3}{4} \times 2\frac{1}{4} \times \frac{3}{4}$ in Kesembling 78

- J T colossum Quél (from its great size) a b
 - P rich brown, paler or whitish at mang St bulbous, reddishbrown with a white floccose apex G white or dull fleshcolour Flesh hard, changing to tawny when broken
 - Odour none or cheese hkc. Under Scotch firs, elms: Oct. $8 \times 4\frac{1}{2} \times 1\frac{3}{2}$ in Resembling 1490 in size and colour. A form occurs apparently between this and 83. Boudier considers this species to belong to Irm/a na.
 - T nietitans Gill (from its sporadic appearance, nietitans, winking)
 - P rich brown, mid darker St enlarged below G yellowish faste usually mild or sweet, slightly of mushrooms sometimes disagreeable, but not bitter, odour none or sweet Woods, rare Sept $5\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ in Resembling 1458 in form, colour and viscultiv
 - T fulvellum Gill (from the tawny pileus fulcus, tawny) a c
 - P dotted-winkled, rich tawny-brown, mid darker St not enlarged below G white

Odour none Woods, beech Oct -Nov 3\frac{1}{2} \times 3 \times \frac{1}{2} in

33

- 88. T. flavobrunneum Quél (flavus, light yellow, brunneus, brown)
 a b c
 - P streaked, tawny or rich brown, mid darker St slightly enlarged below, rich brown or brownish G light yellowish Flesh white or partially pale yellowish

Gregarious, crespitose or in troops Odour strong of rank meal or cheese Decidious woods, especially birch, beech, amongst gorse →ept -Nov 3½ × 2½ × ¾ in A form occurs apparently between this and 80

84. T albobrunneum Quel (albus, white, brunneus, brown) a b c P streaked, rich ochreous to pale brown, mid darker St not enlarged below, yellowish-brown, white above and below G white Flosh permanently white

Said to be edible. Taste usually mild, sometimes bitter, odour none Plantations, fir Sept-Dec 4 × 2 × 3 in

85 T ustale Quel (from its scorched appearance, ustus, burnt) a b c P dotted-wrinkled, rich- or purple-brown, becoming black brown, unstreaked St slightly attenuate downwards brownish white G white Thish sometimes changing to fundest rose

Odour none Woods, chiefly pine rare \ug-\ov 3 x 2\frac{3}{2} x \frac{3}{2} in Intermediate between 83 and 86

- 86 T pessundatum Quel (from the foot-trodden appearance in Sterbeck's illustration) a b c
 - P guttato-spotted, not streaked, brown St equal, pale ochrebrown G white
 - Said to be edible, but suspected poisonous

 Faste mild odour strong of new meal Woods, fir rare Sept Nov 4½ × 2½ × 1 in
- 87 T stans (all (from its standing distinct from 86) a b c
 P reddish brown St equal, white G white Flish reddish
 under cutiele
- 88 A. Russula Gill (from its resemblance to certain of the red Russulae) a b c
 - P rose, or crimson granulate, or rose liver-purplish, variegated rose and ivory-white. G white, judest rose or clouded as P Eaten in Austra. Taste and odour mild, pleasant. Under trees. Oct. 48 × 24 × 3 in Perhaps allied to 1192.
- 89 T frumentaceum Quel (from its odour of meal, frumentum corn) a c
 - P whitish-buff, mid brownish-buff St equal G white Flori white

Odour strong of new meal Sept -Oct 3½ × 14 × 8 m

Woods Sept -Oct 36 x 4 x 1 Compare 106

b Genuna

90 T rutilans Quél (rutilo, to be reddish) a b e

P dark purple on a yellow ground St enlarged below, light sulphur, purple-floccose G bright yellow Hesh sulphur to yellow

Suspected poisonous Odour none Woods, pine, birch, base of tree common Aug-Nov 54 × 44 × 1 in Pilcus sometimes 7 in or mass

- 91 T variegatum Gill (from the variegated pileus) a b
 - P reddish-purple on a yellow ground St slightly enlarged below, reddish-purple-floccose on a yellowish-white ground G yellowish-white Flesh whitish to palest sulphur
 - Rotten wood June-Oct $2\frac{1}{2} \times 2\frac{3}{4} \times \frac{3}{8}$ in Resembling a small, attenuate, dull coloured state of 90
- 92 T luridum Quel (from its lurid colour) a b c
 - P whitish-brown-livid, or ashy-yellowish, mid darker St white G very crowded, whitish
 - Taste mild odour of new meal W oods, pine, etc , common Sept -Oct $2\frac{\lambda}{2} \times 2\frac{\lambda}{2} \times \frac{\lambda}{2}$ in Compare 74 with distant gills and 103 with odour of soap
- 93 T guttatum Gill (from its spotted pileus cutta, a drop) a P pale buff, mid darker, clid with large brown granular sq, marg remotely sulcate, white or faint rose-floccose G white Flesh white, pale rose under cutticle and at base of St.
 - Somewhat crespitose Taste and odour acid bitter Woods Oct 3×2×§in Resembling 99
- 24 T columbetta Quel (from its dove-colour, columla, a dove)
 - P moist, white or faintly clouded buff-white, mid sometimes brownish-grev G separating from stem
 - Solitary Said to be edible laste mild, odour none Pastures, woods, birch, fir, beech Aug-Nov 4×3×3 in Sometimes red or blue spotted, sometimes excluding a deep bright permanent violet stain
 - T sealpturatum Quel (from its scritched appearance, scalpto, to scratch) a c
 - P livid- or grey-brown on a whitish ground St and Flesh whitish G white to yellowish
 - Woods, fir , uncommon Sept -Nov $3\frac{1}{4} \times 3\frac{1}{4} \times \frac{1}{3}$ in Differs from 101 in the yellowish, not grey gills
 - T imbricatum Quel (from the scales of the pileus, *imbricatus*, overlapping) a b c
 - P rich reddish- or crimson-brown St crimson-brown, whitepulverulent above G crowded, at first white
 - Scattered or in troops Said to be edible Taste when raw disagreeable Woods, pine, oak Sept -Nov $4\frac{1}{2} \times 2\frac{4}{3} \times \frac{4}{3}$ in
 - T vaccinum Quél (from the reddish-brown colour, zacca, a cow) a b c
 - P warm-rose to crimson-brown St crimson-brown, not white above G somewhat distant, separating from St
 - In troops Taste bitter, disagreeable, odour strong, not unpleasant Woods, fir Aug-Oct 23 × 21 × 8 in
 - T immundum Quél (immundus, discoloured) a b c
 - P grey-buff St greyish-buff G pearly-grev
 - Caspitose Taste bitter, disagreeable, odour mealy to offensive On sheepdung, rare Sept-Oct 3 x 23 x 3 in

- 99 T inodermum Gill (from the fibrils of the pileus, Gr 15, 1105, a nerve, derma, the skin) a b
 - P pink-buff, mid brownish, brown-scaly St white, then partially reddish, mealy above G white, red-spotted when bruised Flesh pale pink-buff

Damp, dense pine woods $2\frac{3}{4} \times 2\frac{1}{4} \times \frac{1}{2}$ in Resembling 93

- 100 T gausapatum Quel (from the shaggy pileus, gausapa, a shaggy woollen cloth) a b
 - P bullate, obtuse, wavy, woolly-fibillose, somewhat dark-ashy-grey, edge at first incurved, white-woolly St solid, white, fibrillose G adnate, pale grey

Taste mild, odour none Woods, grassy places Sept-Oct $3 \times 2 \times \frac{5}{8}$ in

- 101 T terreum Quél (from its earthy colour, terra, the earth) a b c P umbonate, dark purplish-grey or pale slite St grey, whitepiumose above G white to grey
 - Solitary, gregarious or exspitose I aste slightly rancid odour none Woods, chiefty beech, pine, common Aug.—Nov. 3½ × ½½ ¾ in Often becoming black in druing Sometimes springing from rose coloured mycelum or from rhizomorphoid threads of ride deged Var argracaum Mass Wholly silvery whitish Var one cens W G Sm., Agaricus scalpturatus Fr. var zirecens Cooke Becoming yellowshighten Var attroquamorum Mass. Black, scaly Var christia Vass. Becoming yellow
- 101a T squarrulosum Bres (squarrulosus, scaly) a
 - P becoming striato hairy, fuscous to lurid tain mid black-squamulose St broadly striato-rough, dark grey-umber on a pale dull salmon ground G grey-white as in 101

Under oaks, hazel Sept $3\frac{1}{8} \times 3\frac{1}{8} \times \frac{1}{8}$ in

- 101b T horribile Rea (horribilis, rough) a
 - P dark-fuscous-squamulose, the ground pink at maturity St enlarged below, white, smooth, hollow G emarginate, crowded, marg uneven, whitish, becoming pinkish Flish white, becoming pinkish and fuscous-spotted

Under beech 45 × 32 × 1 in

c Rigidæ

- 102 T macrorhizum Sacc (Gr makros, long, rhza, a root) a b

 P smooth, then tessulato-cracked, ochreous-buff St whitishochreous Flish slightly yellowish
 - Faste mushroom like or unpleasant, odour strong like 113, cadaverous, like Lilium auratum, like carrion or fetid sweet, varying pleasant to unpleasant Nov $4\frac{1}{4} \times 5\frac{5}{4} \times 1\frac{1}{4}$ in Pileus sometimes 8 in or more in diam with a long rooting stem in proportion
- 103 T saponaeeum Quél (from its soapy odour) a b c P smooth, then olive-brown scaly St pale yellowish-grey, often minutely black scaly G distant, yellowish-grey-white
 - Woods, hedgesides, etc, amongst leaves, common Aug Nov 3½×2½×8 in Often reddish when bruised Must not be confounded with the scentless 112b

- 104 T cartilagmeum Quél (from its gristly substance) a c
 - P black-dotted on a brownish ground, mid darker St smooth, whitish Flesh white G crowded, white or pale greyish
 - Odour none Grassy places in woods and pastures, amongst pines, uncommon Aug—Nov $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{8}$ in Compare 112a. An abnormal growth of this, 4 ft 1 in \times 2 ft 1 in , with many pilei, raised the pavement of Goswell Road, London, in 1865
- 105 T tenuceps Mass (from the thin flish of the pileus, tenuceps, thin-headed) a
 - P conico-hemispherical, granular, dark smoky-brown St punctato-granulosc, ochreous-white G subdistant, ventricose, white
 - Solutry or in clusters of two or three, springing from thick cord like mycelium. Amongst grass under trees. July $2\frac{1}{2} \times 1\frac{3}{4} \times \frac{1}{4}$ in Resembling 227 (var 176/μr)
- 106 T lorieatum Gill (from the leathery cuticle, *lorica*, a leather cuirass) a c
 - P unusually lobed, moist or subviscid, the thick cuticle peeling off, rich brown , marg paler St reddish-buff G whitish straw-colour
 - Odour strong, pleasant or nauseous $\,$ Woods, mixed $\,$ Sept $\,$ 2§ \times 2½ \times ½ in Compare with 87
- 107 T atroeinereum Quel (ato, black, canereus, ash coloured) a

 P ashy-brown or blackish, mid darker St whitish Flesh
 hygrophanous
 - Odour of new meal Grassy ground Oct 13 × 14 × 1 in
- 108 T cuncifolium Gill (from the wedge-shaped gills, cuncus, a wedge, folium, a leaf) a b c Fragile
 - P smooth, brittle, often concentrically crucked, rich brown to livid St slightly attenuate downwards, splitting, pale brownish, white above G distant
 - Said to be edible Taste disagricable, rand, odour strong of new meal Pastures, frequent Sept-Nov 14×14×8 m Agaicus cinereo rimosum Batsch, a form of this, is British
- 109 T erassifolium Sacc (from its thick gills crassus, thick, folium, a leaf) a
 - P ochraceous or somewhat buff, mid umbei St pale ochreous
 - Gregarious or subcæspitose Odour strong Woods, fir , uncommon Oct $2\frac{1}{2} \times 1\frac{1}{4} \times \frac{2}{8}$ in
- 109a T sudum Quél (sudus, dry) a
 - P ashy-rufous or blackish-umber, marg paler St punctate with minute squamules, pallid, shaded rufous G whitish, edge rufescent
 - Woods Amongst grass 33 × 31 × 1 in Compare 131

- 110 T tumidum Gill (tumidus, swollen) a b
 - P irregular, often cracked, ashy-livid, mid darker St often swollen and attenuate below, white, often red-tinged within
 - Taste and odour weak, not unpleasant Woods, pine, moist places Oct-Nov $3\frac{1}{4} \times 3\frac{3}{4} \times \frac{2}{8}$ in Var Keithi Sace (after the Rev Dr J Keith) the whole plant becomes partially rufescent
- 111 T murinaceum Gill (from its mouse-colour, mus, a mouse) a b c Ashy- or lilac-greyish
 - P cracked, streaked grey-sulky-scaly, so sometimes blackish St more or less scaly like P G grey
 - Taste very disagreeable, bitter , odour strong, unpleasant, sometimes nitrous Open woods and pastures , rare $\begin{array}{ccc} Aug-Nov & 4\frac{1}{8}\times3\frac{1}{2}\times\frac{3}{2} & \text{in} & \text{Must not} \\ \text{bc confounded with 1244} & & \\ \end{array}$
- 111a T hordum Quel (perhaps from hordeum, barley, on account of the hard substance)
 - P subumbonate, soon cracking, in diy weather squarrose, mousegrey, mid darker St glabrous, whitish, shaded greyish G subdistant, white to greyish

Taste mild, odour none Under beeches 33 × 48 × 5 in

- 112 T virgatum Gill (from the streaked pileus, virga, a stripe) a c P pale ashy-grey, finely-streaked black-fibrillose St subbulbous G crowded, becoming hoary Flish cinereous-whitish
 - Usually solitary Taste when young very bitter, becoming tasteless, odour usually none, sometimes sweet like milliot Woods, mixed, oak, pine Aug –Oct $3\frac{1}{4} \times 3\frac{1}{8} \times \frac{1}{2}$ in
- 112a T elytroides Karst (from the appearance of the pileus, like the wing-cases of certain beetles, (or *clutron*, a beetle's wing-case, *endos*, appearance) a b
 - P expanded, obtuse, scabrous, with minute linear black-brown scales on a yellowish or pale brown ground, caused by the cracking of the cuticle St soft, densely brownish-fibrillose G ashy-grey or brownish-white Fash white

Odour faint of new meal Oct 31 × 31 × 5 in Compare 104

- 112b T opicum Gill (opicus, clownish) a
 - P somewhat thin, obtusely umbonate, even, soon squamulose, at length unusually upturned and split, very dry, becoming minutely squamulose, grey St stuffed, fibrillose, becoming almost glabrous, pallid to greyish G arcuato-adfixed, somewhat thick, hoary Ftsh greyish
 - Outur none Woods, pine, amongst moss 1½ × 3 × ½ in Must not be confounded with 103, which smells strongly of soap

d Scricella

- 113 T sulphureum Quel (from its sulphur-colour) a b c
 P sulphur-yellow, sometimes rufescent-clouded St striate, sulphur G light sulphur Flesh sulphur
 - Greganous Probably poisonous Odour strong and penctrating of gas-tar, fettd, like Hemerocallis flava, sometimes pleasant Woods, mixed, common Aug.—Nov. 3½ × 4. × ½ in

- 114 T busonium Gill (from a fancied resemblance in the pileus to a toad's back, buso, a toad) a b c
 - P dotted-wrinkled, yellowish-tan or buff, mid rufescent St flocculose, vellow or yellow rufescent G yellow-tan
 - Odour same as 113, but fainter, sometimes not unpleasant Woods, under pines Sept –Nov $3\times 2\frac{4}{3}\times \frac{1}{2}$ in
- 115 T laseivum Gill (from its many affinities, laseivus, playful, wanton) a b
 - P not umbonate, becoming depressed, cream to pale buff, mid darker St ivory-white G separating from stem, crowded, white
 - Taste strong, disagreeable, pungent, somewhat acid, odour like gas tar, varying to fried mushrooms, but disagreeable, more or less like 113 Mixed woods, frequent May-Nov 3½ × 2½ × ½ in Not unlike 1188 in general appearance
- 116 T inamœnum Gill (from its unpleasant odour, inamanus, unpleasant) a ε
 - P subumbonate, avory-white G white or buff-white Spores ochre-white
 - Suspected poisonous Odour, especially when young, as in 113 but stronger and more fettid Woods, amongst pine leaves Sept -Nov 2½×3½×3 in Sometimes confounded with 115 Resembling 1188 in general appearance
- 117 T cerinum Quel (from its colour, like yellow wax, cera, wax)
 - P yellow, then fuscous-brown St yellow, base often brownish, or wholly fuscous G deep yellow

Pine woods, lawns June-July $1_R \times 2_R^1 \times \frac{1}{4}$ in

- 118 T fallax Sacc (from its resemblance to a dwarf form of 114 or 117, fallax, deceitful) a
 - P yellow, mid sometimes rufous St yellowish G white, then yellowish

Under firs Autumn 11 × 1 × 1 in

- 118a T onychinum Gill (onychinus, of the colour of the human nail) a
 - P fleshy, subumbonate, convexo-plane, glabrous, purplish or sienna-umber, marg striate, orange sienna or silky-purple St solid, almost equal, fibrilloso-silky, pallid or dull orange-sulphur, reddish or sienna pulverulent above, brownish below G rounded, at length free, crowded, yellow Fish yellowish-white, or pale olive-sulphur

Amongst pines, mossy places Autumn 23 × 3 × 1 in

- 119 T ionides Quel (from its violet colour, Gr 1011) a c
 - P hlac or violaceous, sometimes livid-reddish St pale hlac Flish hlac under membrane of P, and at base of St
 - Odour faint, agreeable, like 1280 Woods most place, open pastures, under firs, cidars Aug-Nov 2½ × 2½ × ½ in Kesembles 298 in general appearance

120 T carneum Quél (from its flesh-colour, caro) a b c

P becoming whitish St attenuate downwards, paler than P G white Flesh white

Fields and waysides in woods , frequent May-Oct $I_{\frac{3}{4}}^3 \times I_{\frac{1}{4}}^1 \times I_{\frac{1}{4}}^1$ in

121 T explatum Gill (from its umbilicus, chiselled out, cælum, a chisel) a b c

P becoming flocculose, brownish, then pale grey St pale brown G dull white or grey

Woods, downs April-Sept $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{9}{16}$ in Resembling certain species of Omphalia

e Guttatæ

122 T gambosum Gill (from the hoof-like pileus gamba, a hoof)

a b c Buff-white

P hemispherical G crowded

Solitary of 2-3 connate in large rings or troops. Edible if gathered in dry weather and not rank smelling. Odour strong of new meal, pleasant, varying to rink as in *Polyporus squamovus*. Pields and downs. April-July 3\(\frac{5}{2}\times 2 \times 1\frac{1}{2}\times 1\) "St George's mushroom." Must not be confounded with 133 or the solitary form of 123

123 T albellum Quel (albus, white) a b c

P conical, then convex, pale dull yellowish-white St ovatobulbous, colour as P G very crowded

Solitary or connate Taste pleusant, odour weak Woods April-Oct Solitary— $3\times2\times1$ in Connate— $13\times12\times1$ in The connate form must not be confounded with connate 153

124 T boreale Karst (from its growing chiefly in northern countries, borealis, northern) a b c

P subumbonate, flesh-colour S/ attenuate downwards, pale flesh-colour G crowded

Said to be edible Odour of fresh meal Grassy places $2\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{2}$ in Not unlike 648 in general appearance

125 T amethystinum Gill (from its colour) a

P livid lilac or grey-puiple St livid

Woods, pine Sept 23 × 2 × 1 in

126 T tigrinum Quel (from the markings on the pileus) a b
P pallid brown, spotted-brown
St white

Solitary or coespitose. Odour usually none, sometimes fetid Woods, fir, open places, rare June-July Allied to 129 and 142

127 T pes-capræ Quel (from a fancied resemblance in the stem to a goat's foot, pcs-capræ) a c

P umbonate, fragile, grey or brownish, marg cracked St brownish-white G becoming ashy, rarely olive

Odour of meal Open places, under orks Oct -Nov $1\frac{7}{8} \times 2\frac{3}{8} \times \frac{3}{8}$ in Var multiforme Mass Smaller and flesh of pileus thinner than type, gregarious

f Spongrosæ

128 T Schumacheri Gill (after Christian Friedrich Schumacher) a b P livid grey or faint brownish-lilac, mid darker, marg exceeding G SI ivory-greyish or white, base villous G subdecurrent, very crowded, white or brownish-white

Woods, hothouses Autumn 3\\ \text{3} \times \\ \text{3} \text{in Not unlike 153}

128a T amieum Gill (from its being well known, amicus, a friend) a P fleshy, convexo-expanded, broadly umbonate, even, glabrous, dusky- or olive-brown, membrane of P extending beyond G St solid, firm, bulbous, white or slightly suffused with colour of P G rounded, almost free, broad, distrint, white Flesh white

Solitary Odour none Amongst pines, mossy places Autumn $3 \times 3^{\frac{1}{2}} \times \frac{1}{2}$ in

- 129 T circumtectum Sicc (from the encircling margin of the pileus, circumtectus) a b
 - P volive or dusky, mid tawny St white G emarginate, distant
 - Taste mild, odour none Sept 21 × 13 × 3 in Elastic Compare 126 and 142
- 130 T patulum Quel (from the spierd out pileus, patulus) a b c P 11073-brown to pale, dull lavender-brown or whitish, becoming pale yellowish St white G rounded, almost free to distant, whitish
 - Solitars, crespitose or in troops Odour none Woods, under bitches Only appearing in very wet seasons Out. 4 × 3 × 1½ in The cresp tose form must not be confounded with 179
- 131 T arcuatum Quel (from its arched gills) a c
 - P dark-brown, mid almost black, becoming lighter St subbulbous, white, brown at base G sinuate, white or buff-white Flesh becoming yellow or brownish
 - Gregarious (rasv ground Oct –Nov $2\frac{3}{4} \times 1\frac{1}{2} \times \frac{1}{15}$ in Sometimes confounded with 109a and 144
- 132 T oreinum Gill (from its usual habitat, Gr oreinos, hill) a

 P livid brown, marg exceeding G St subbilbous, white
 above ochreous below G rounded, free Fish white
 - Solitary Odour none Heath and open ground Autumn $1\frac{1}{2} \times 1\frac{1}{5} \times \frac{1}{4}$ in Sometimes confounded with 144
- 188 T album Quel (albus, white) a b c Ivory white, sometimes becoming faintly yellowish or slightly butt, fleshy
 - P dry St attenuate upwards G sinuate
 - Perhaps poisonous Woods, frequent Aug—Nov 4½ × 3½ × ¾ in Var assaratum Quel P thin St thin G almost free Must be carefully distinguished from other white species

- 134 T leucocephalum Quél (Gr leukos, white, caphale, head) a b c Unchanging white
 - P silky-downy St attenuate downwards G rounded
 - Odour strong and pleasant of new meal Woods, amongst leaves, lawns, numerous specimens growing through the flattened remains of a dead hedgehog Aug-Oct 2½ × 28 × 3 in
- 135 T acerbum Quel (acerbus, bitter) a b c
 - P viscid when moist, buff or brown marg involute brownwrinkled St solid, squamulose, light buff, darker below G crowded, pallid, then spotted or rufescent
 - Taste usually bitter, sometimes none, odour strong and unpleasant, some times pleasant or none Woods, shady places, frequent Aug-Dec $6\times3\frac{1}{4}\times1\frac{1}{4}$ in
- 136 T militare Gill (from its appearance as contrasted with 137, miles, a soldier) a
 - P very fleshy, viscid, cinnamon, marg white-floccose St pallid G somewhat crowded, becoming livid-spotted
 - Cæspitose or in rows Taste and odour unpleasant Woods Oct $5\frac{1}{6} \times 3\frac{1}{4} \times 1$ in
- 137 T civile (sill (from its appearance is contrasted with 136, civis, a citizen) a c
 - P subfleshy, subviscid, pale yellowish, mid darker St whitish G becoming pile yellow, rarely spotted
 - Odour none Woods, pine Oct-Nov 3 × 2½ × ½ in Resembling an exannulate 17
- 138 T personatum Quel (from its mask—the velvety edge of the pileus and the scales on the stem as contrasted with 139, pasona, a mask) a b c
 - P very fleshy, somewhat pale livid-brown St brownish, bright purple above, brittle below G livid, sometimes becoming purplish
 - Solitary or gregarious Edible in dry weather, soddened and unwholesome in wet Pastures and downs, sometimes woods, common June-Nov $5\frac{1}{8} \times 3\frac{1}{8} \times 1$ in The "bluette," "blewitt," or "blue leg" Often confounded with 139 and 1039
- 188a T glaucocanum Bres (glaucus, bluish-grey, canus, greywhitish) a v
 - P fleshy, somewhat soft, convevo-expanded, moist, marg involute, somewhat flocculoso prunose St soild, bulbous, fibrilloso-striate, subsquamulose above, whitish-grey G emarginate, very crowded, separating from hymenophore, purple-greyish
 - Edible Taste mild, odour strong of new meal Under comfers Autumn 2\hat{2} \times 3 \times \hat{2} \times 1 \tim
- 138b T sævum Gill (from its aspect, særus, sinister) a
 - P convex, then plane, pallid brownish St somewhat shaggy squamulose, bright lilac-purple, lighter above, white at base G crowded, pallid whitish
 - On the earth, in woods, pasturages Nov 38 × 28 × 8 in

- 189 T nudum Quél (from the naked edge of the pileus and smooth stem when contrasted with 138) a b c
 - P somewhat thin, purple, rufescent St purple G purple to rufescent
 - Odour acid, pleasant Woods, often amongst firs, frequent Sept -Dec $3\frac{1}{8} \times 2\frac{1}{8} \times \frac{1}{9}$ in Often confounded with 138, 149, 180, and 1039 There is a large form twice the size of type
- 140 T cineraseens Gill (from its ashy colour cinis, ashes) a b
 P white to ashy-grey
 St whitish G rounded, free, white, then darker than P
 - Gregarious, crespitose Odour somewhat disagrceable, pungent, sometimes like new meal Woods, frequent Sometimes becomes blackish when bruised Aug-Oct $3 \times 3\frac{1}{4} \times \frac{1}{2}$ in
- 141 T panæolum Quél (Gr panasolos, variegated) a b
 - P convex then flat, sooty gres prumose, or brown-sellow blotched different shades of umber of naked, whitish-grey G sinuatorounded, then subdecurrent, white, then grey to dusky or brownish
 - Said to be edible and delicious. Odour not unpleasant. Grassy places Sept -Nov. $3\frac{1}{4} \times 1\frac{9}{4} \times \frac{1}{1}$ in
- 141a T enista Gill (perhaps from Gr knisa, odour of roasting fat) a P convex, obtuse, plane, even, glabrous, moist, pale tan or whitish, disc darker marg incurved, even, naked St solid, equal, even, glabrous, tough, white G adnexo-rounded, crowded, transversely veined, inclined to separate from hymenophore, white, pillid yellow or reddish when bruised Flesh rather thick, soft, white
 - Grassy open places Autumn $3\frac{1}{4} \times 3\frac{1}{4} \times \frac{1}{2}$ in Similar to 141, but white, not becoming grey
- 142 T duraeinum Sace (durus, hard, acinus, a berry) a Ashy-grey
 P very fleshi, broadli umbonate St attenuate upwards, reticulato-squamose above, piler than P or white G cinereous
 Under cedars Oct 2½ x 2½ x 1½ in Albed to 128

g Hygrophanæ

- 143 T grammopodium Quel (from the striate stem, Gr gramme, a line, pous, a foot) a b c
 - P depressed, umbonate, livid, opaque, brownish St whitish brown, enlarged and white-villous below G whitish or livid
 - Taste unpleasant, odour moundy, unpleasant Pastures and grassy places in woods, frequent June–Nov $5\frac{1}{2}\times4\times\frac{5}{8}$ in The pileus is frequently clouded with white mycelium as in 153 There is a wholly white variety
- 144 T melaleucum Quél (from the dark pileus and white stem, Gr milas, black, leukos, white) a b c
 - P flat, subumbonate, dark, smoly, olive- or slate-brown, varying to lavender St white, often buff below G white, sometimes becoming yellowish Flish unchanging white
 - Taste strong and disagreeable or none, odour pleasant or none Grassy places, orchards, gardens, uncommon Marchi-Oct 3 x × 2½ × ½ in

- Sometimes confounded with 131 and 132 Var polioleucum Gill P livid, then grey Var porphyroleucum Gill Firmer P fuliginous or fuscous, then rufescent, with evanescent um
- 145 T brevipes Quél (from its short stem, brevis, short, pes, a foot) a b c
 - P broadly subumbonate, livid pale- or red-brown or dull lavender St bulbous, white to brownish G whitish to fuscous Flish brown, white when dry
 - Solitary or somewhat connite Odour none Woods, open places, fields, etc. June Nov. $3\frac{3}{4} \times 1\frac{1}{8} \times \frac{1}{4}$ in
- 146 T humile Quel (humilis, low, dwarf) a b c
 - P livid ashy- or warm-brown, pale dull buff or pale slate, sometimes faintly zoned darker St pulverulento-villous, ashy-white G whitish Flesh whitish or ashy-brown
 - Gregarious or crespitose I aste not unpleasant, odour none Woods, open places, gardens, cinder heaps, frequent Aug-Nov 2½ x 15 x ½ in
- 147 T exscissum Quel (from the linear gills, as if cut away, execute, to tear out) a b c
 - P umbonate, brownish-white, pale mouse-colour or somewhat buff, varying dark brown St smooth, white Flish white

 Pastures Way-Nov 3×21×3 in
- 148 T subpulverulentum Karst (from the minute hoary powder frequent on the pileus, puhis dust) $a\ b$
 - P broadly subumbonate, pale livid-brown, greyish or whitish St smooth, slightly striate, white G white Flish white
 - Sometimes in large rings, twenty or more feet in diameter I aste at first agreeable, at length astringent Woods, pustures, gardens Aug Oct $2\frac{1}{6} \times 1\frac{1}{8} \times \frac{1}{8}$ in
- 149 T sordidum Quel (sordidus, dirty) a b c
 - P broadly subumbonate, pale livid to purplish pale brown St colour as P G sinuato- or adnato-decurrent, becoming distant, purplish or pale brownish
 - Gregarious, somewhat crespitose Odour none Pastures, manuie, dung heaps July-Nov 3½ × 2½ × ½ in Sometimes mistaken for a pale form of 139
- 150 T pædidum Quel (pædidus, nasty, mean) a
 - P tough, flaccid, umbonate, smoky-grey or dull brown, at first radiato-streaked with fibrils St paler than 1° G crowded, rounded, whitish, then grey
 - Odour none Woods, grassy places, gardens, on dunghills Aug
- 151 T lixivium Karst (from its watery-ashy colour, lixivium, ashes and water) a b c
 - P umbonate, umber, ashy-brown when dry St floccoso-pruinose, white, then as P G distant, adnexo-rounded, grey Woods, pine Nov $3 \times 2\frac{8}{5} \times \frac{1}{2}$ in

152 T putidum Karst (putidus, stinking) a c

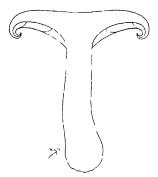
P subumbonate, olive-grey or brown, hoary or sprinkled whitesilky St grey, white prumose G crowded, adnexo-free, ashy-grey

Odour strong, rancid Woods, pine Oct -Nov 2 x 21/2 x 1/4 in

VII CLITOCYBE Quel

(From the decurrent gills, Gr khtos, a declivity, kube, a head)

Vetl universal, imperfect or obsolete, manifest as pruina, flock, silkiness or squamules on the pileus and stem Hymenophore confluent and homogeneous with the fleshy stem Puleus varying



I ig 16 - Section of Clito 3 le nel ularis Quél One third natural 12e

infundibuliform to plano-depressed, usually fleshy at the disc, margin at first involute St.m central, simple, without cartilaginous bark Gtlls decurrent, rarely adnate, with an acute edge Sports elliptical or subglobose, smooth (Fig. 16)

The species usually grow on the ground, but exceptions occur in 185, 201, 208, 212, and 223, which rarely grow on logs, stumps or rotten wood, they commonly grow in clusters, many are fragrant and appear in the late autumn or early winter a few are edible

Must not be confounded with Hygrophorus, where the gills are thick and often of a wax-like substance, or with Cantharellus, where the gills are very thick and fold-like, or Lintinis Panus or Xerotus, where the substance is leathery and the habitat usually stumps

Species 153-224

A	Pileus fleshy,	not	hygrophanous,	often	becoming	pale	and	sılky
ın dryıng								

a Discisor mes Pileus convex, then plane or depressed, regular Gills adnate or adnato decurrent

Pileus ashy or brownish	153159
Pileus violaceous, rufescent	160163
Pilcus becoming yellow	164167
Pileus green, except 170, then pale, odour sweet	168170
Pileus white	171177

b Differences Puleus at first umbonate, then expanded or depressed Gills unequally decurrent Generally coespitose, sometimes solitary 178—189

c Infundibution mes Pticus at length deeply depressed Gills truly decurrent Often losing colour in drying

Pileus coloured, becoming hyaline, minutely floculose or silky Hygrophanous but not externally moist 190—195
Pileus varied in colour Moist in rainy weather 196—204
Pileus shining whitish, slightly floculoso-sprinkled or smooth

n II.....

B Hygrophanous

46

d -Cyathsformes Pshus cup-shaped Gills at first adnate, then decurrent Colours dull when moist (Must not be confounded with the Hydrogramme, under Omphalia)

208-214

205-207

c Orbiformes Pileus convex, then plane or depressed, shining, not mealy or squamulose Gills adnate or adnato-toothed Colours dull or watery-hyaline

Pileus at first dark Gills becoming ashy

215—217

Pileus at first dark Gills becoming ashy 215—217
Pileus becoming pale Gills whitish 218—221

f Versiformes Pileus tough, more or less squamulose or furfuraceous Gilis adnate or decurrent, somewhat thick, distant Stem tough

Pileus dull or dusky with darker squamules 222, 223
Pileus bright in colour 224

a Disciformes

153 C nebularis Quel (from the frequent clouds of white mycelium on the pileus, nebula, a cloud) a b c

P smoky-brown, grey, or pale slate St spongy-elastic, whitish or grey G crowded, shortly decurrent, white Flesh opaque white

Laxly gregarious, rarely connate as in 123 Edible Taste somewhat peppery, odour of curd cheese Woods, fir, beech, hedge bottoms, etc., amongst leaves, common Aug-Dec 6×4½×1½ in There is a white variety Must not be confounded with 128 The mycclium on pileus gives rise to 451 A similar mycclium occurs on 143

- 154 C elavipes Gill (from the club-shaped stem, clava, a club, fes, a foot) a b c
 - P flat, sooty-brown or grey, marg often white St smoky-hvid, somewhat fibrillose G subdistant, deeply decurrent, white Flesh hyaline-whitish
 - Odour mild, pleasant Woods, spruce fir, pine, beech , common July–Nov $2\xi \times 2\xi \times \xi$ in There is a white variety The pileus is sometimes 4 in or more in diam
- 154a C comitalis Gill (perhaps from its being one of a number of allied forms which meet at this position in Clitocybe) a
 - P obtuse, soon plane, even, glabrous, somewhat moist, not hygrophanous, sooty-brown, almost black St stuffed, attenuate upwards, obconic, glabrous, sooty-brown G subdecurrent, horizontal, thin, crowded, white Plest white or whitish
 - Odour none Pine woods, damp places amongst moss Autumn 18 × 3½ × ½ in Firmer and smaller than 154
- 155 C gangrænosa Gill (from its ulcerous appearance, gangræna, an ulcer) a b c
 - P Jivid, at first white-pulverulent St slender to stout, sootygrey G sub- or sinuato-decurrent
 - Taste insipid, unpleasant, odour sometimes strongly fetid, meal like lut nauseous, sometimes strong and not unpleasant Woods and plantations, larch, rare Oct-Nov $3\frac{3}{8} \times 3\frac{1}{8} \times 8$ in More or less changing within and without to slate colour or black, the flish changes from livid to indigo, then black, sepia black when dry Wist not be confounded with 1168
- 155a C polia Kaist (Gr polios, grev) a b
 - P glabrous, not hygrophanous, pale grey or pale olive-brownish, marg whitish St solid, slightly attenuate upwards, white, pale brownish below G somewhat deeply decurrent, closely crowded, very narrow, white Flesh white, pale brown in P
 - Cespitose, usually in small clusters, but sometimes I ft 4 in in diam Woods Autumn 2 × 31 × 3 in
- 156 C inornata Gill (inornatus, unadorned) a b c
 - P with a separable hyid-brownish pellicle, which frequently cracks from the marg upwards and peels up, unchanging hyid St greyish or brownish G decurrent, colour as St Flesh grey
 - Odour mushroom like Fields, woods , under cedars , rare Oct -Nov $4 \times 2\frac{1}{4} \times \frac{1}{2}$ in
- 156a C luseina Karst (from the often small eye-like pileus and the solitary habit, *luscinus*, one-eyed) a
 - P somewhat fleshy, even, edge spreading, glabrous, grey on a pale reddish or buff ground, purple or slate-brown when young, marg striate St solid, attenuate downwards, greyish or faintly brownish, white pulverulent G subdocurrent, crowded, yellowish- or salmon-whitish, shaded grey
 - In pastures Autumn 2 x 2 x 18 in

- 157 C curtipes Gill (from the short stem, curto, to shorten, pes, a foot) a
 - P expanded, oblique, obtuse, olive-ochre to olive- or flesh-brown St rigid, thickened upwards, olive-brown, subpruinose G adnate, closely crowded, ivory-white

Grassy places Autumn 13 x 1 x 1 in

- 158 C hirneola Quél (from a fancied jug-like shape, hirnea, a jug)
 - P umbilicate, minutely silky-hoary, whitish, grev, tan or olive shaded St colour as P, hoary above G decurrent, crowded, lighter than P, becoming hoary

Amongst moss and grass, roadsides Oct $1\frac{1}{2} \times 1\frac{3}{8} \times \frac{1}{8}$ in Must not be confounded with members of Omphalia

- 159 C zygophylla Sacc (from the vein-connected gills Gr zygon, a yoke, phullon, a leaf) a b
 - P whitish mid pale buff marg rugose or plicate, becoming white St whitish, downy at base G decurrent, subdistant, pale clay-colour
 - Amongst leaves Oct –Nov $4 \times 1\frac{9}{2} \times \frac{1}{2}$ in Resembling in general appear nnce 202 and 1278 In the whitish tawn; pileus and clay coloured gills it resembles 570
- 160 C cyanophæa Sacc (Gr Luanos, blue, phatos, dusky) a P pale slate-blue, mid brown St poler than P, becoming yellowish, abruptly white above G deeply decurrent, pale slate-blue

Woods 22 × 23 × 1 in Must not be confounded with 139

- 161 C opipara Gill (opiparus, splendid) a l
 - P shining, bronzy flesh-colour St pale brownish G adnatodecurrent, white to pale yellowish
 - Taste and odour pleasant Mossy places under trees, beech Oct $3\times 3\times \frac{\pi}{4}$ in
- 162 C amara Quél (amarus, bitter) a b c
 - P flat, dull buff, then whitish St white G adnato decurrent, crowded, white

Odour of new meal Woody places Oct 34 × 17 × 8 in

- 163 C socialis Gill (from its gregarious habit) a
 - P acutely umbonate, reddish-buff St brownish, strigose at base G sinuato-decurrent, scarcely crowded, becoming yellowish

Odour none Amongst fir leaves Sept -Oct $1\frac{5}{8} \times 1\frac{3}{8} \times \frac{3}{4}$ in Must not be confounded with 165

- 164 C amarella Quel (amarus, bitter) a b
 - P subumbonate, pallid fawn to whitish St solid, colour as P G subdecurrent, crowded, pallid

Taste very fetid bitter , odour strong of prussic acid or very disagreeable Woods Oct $2\frac{1}{3} \times 1\frac{3}{4} \times \frac{1}{4}$ in

- 165 C vermeosa Gill (from the shining pileus, vernis, varnish) a b P yellowish or buff St stuffed, yellow G adnato-decurrent, subdistant, sulphur-yellow Flesh which to pale sulphur
 - Odour none Woods, fir, larch, rare Autumn $3\frac{1}{8} \times 1\frac{3}{4} \times \frac{3}{8}$ in Somewhat resembles a yellow Hygrophorus
- 166 C venustissima Karst (venustus, beautiful) a b
 - P thin, subumbilicate, orange-vermilion, marg crenate St orange-yellow, base white G decurrent, subdistant, yellow Odour none. Amongst larch and pine leaves Autumn 2 × 1½ × ½ in Resembles a yellow H grophorus
- 167 C subalutacea Gill (from its colour, aluta, soft leather) a c P thick, subumbonate or depressed, pale tan St pale straw G adnato-decurrent, distant, pallid white
 - Odour as in 168, or weak of anise, sometimes strong and disagreeable of rancid meal or none. Under trees, hollies Nov $2 \times 1\frac{3}{4} \times \frac{4}{3}$ in
- 168 C odora Ouel (odorus, fragrant) a b c
 - P subumbonate, dull greenish or bluish St greyish, whitish, greenish or pale brownish G paler than P
 - Single or subcespitose Odour strong and pleasant of muliot, anise, ilmonds, meadow sweet or new mown hav, stronger in recently dried examples Woods, grissy places, roadsides Aug-Nov 3 × 12 × 2 m
- 169 C Trog1 Sacc (after Jacob Gabriel Trog, Swedish botanist) a P subumbonate, ashy-white to buff-grey St solid, white G white
 - Said to be edible Odour fragrant and spicy as in 168 Woods, amongst leaves Oct –Nov $3\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$ in The colour approaches 215
- 170 C rivulosa Quel (from the rivulose cracks on the pileus) a b P whitish, very pale or brownish flesh colour or brownish-ochre with no shade of green, appearing at first as if whitish-varnished, the cracking of this cort giving the invulose appearance St colour as P G flesh-colour
 - Solitary, gregations of existing. Laste mild odour pleasant. On leaves, amongst most, pristures, producte, etc. Out -0.00 $1\frac{4}{3} \times 1\frac{1}{6} \times \frac{1}{16}$ in Some small form, as the var *influence* Mass approach 171
- 171 C cerussata Quel (from its colour, cerussa, white-lead) a b c

 St solid G adnato-decurrent, very crowded, never yellow
 - Often in troops Taste mild, pleasant, sweet, or like 1394 sometimes rancid, odour pleasant or none. Woods, mixed, fir, frequent April-Oct 3\(\frac{3}{8}\times 2\times \text{kin}\) There are three forms To Stout like 122 and 123 2 Slender, like 172 3 Large, stout, irregular the var difformis Sometimes springs from dense, creeping investigant Actor all Vision 188
- 172 C phyllophila Quel (Gr phullon, a leaf, pl. Lo., loving) a b c P tan or white St stuffed or hollow, sometimes pale brownish G slightly decurrent, subcrowded, sometimes buff-white or yellowish
 - C'e-putose and larger, solitary and smaller Odour mealy or none Woods, chiefly amongst beeth leaves, one form on pinc leaves Sept Dec 3 × 2⅓ × ⅓ in Must not be confounded with 367

- 178 C pithyophila Gill (Gr pitus, pine, philos, loving) a b c
 Persistently white
 - P plano-umbilicate, thin, hygrophanous St somewhat hollow, tomentose at base G adnato-decurrent, very crowded
 - Gregarious or subcreputose Odour pleasant Pine woods , frequent Sept Nov. $2\frac{4}{8} \times \frac{1}{6} \times \frac{1}{16}$ in Wust not be confounded with 206
- 174 C tornata Quel (from its shape terne, to turn on a lathe) a P gibbous, mid fleshy St stuffed, pubescent at base G adnate with a decurrent tooth, very crowded
 - Odour none. Woods, amongst girss, by decayed stumps, elm. Oct $2 \times 2 \times \frac{1}{4}$ in Always small
- 175 C candicans Quel (candicans, shining-white) a b i
 - P mid not fleshy SI somewhat hollow G adnato-decurrent, crowded
 - Odour of new meal Woods, amongst damp leaves common July-Nov $I_5^2 \times I_2^1 \times I_8^1$ in Must not be confounded with 176
- 176 C dealbata (sill (dealbatus, whitewashed) a b c
 - P not fleshy St stuffed or hollow G adnate or adnatodecurrent, crowded
 - Odour sweet, weak, pleasant, mealy but fungoid Woods and pastures, sometimes on old mushroom beds, common July-Nov. $2^1 \times 1^1_8 \times 3^1_9$ in Some small, dehente forms, var miner Sace, are at times confounded with 176
- 177 C gallinacea (nll (from its colour, like it hens egg gallina, a hen) α h ι
 - St solid G adnato-decurrent, crowded
 - In troops, sometimes in rings, amongst grass. Taste slightly fettd acrid, odour strong, earthy Woods and pastures, amongst grass and moss, common Scpt-Nos $1\frac{1}{4} \times 1\frac{1}{8} \times \frac{1}{4}$ in

b Differ mes

- 178 C ampla Gill (amplus, large) a b
 - P fleshy, somewhat silky, sooty or ochreous-brown St white or brownish white G decurrent or sinuato-adnate and toothed Flesh fibrous
 - Tasteless , odour none Woods, amongst moss Sept -Nov $6\frac{3}{4} \times 3\frac{3}{4} \times 1\frac{3}{8}$ in
- 178a C molybdina (fill (from the dark, lead-coloured pileus, Gr molubdaina, lead-ore) a
 - P fleshy, campanulate, expanded, umbonate, even, glabrous, marg thin, somewhat dark sooty-umber, mid sooty-buff St solid, stout, fibroso-striate, mealy-squamulose above, pallid or yellowish salmon-white, white at base G adnate, broad, pale yellowish-salmon
 - Cæspitose Woods Autumn $5\frac{1}{2} \times 6\frac{3}{2} \times \frac{3}{4}$ in With the general appear ance of 458 (var eximus), but the adnate galls and white spores very different

- 179 C decastes Quél (from its growing in clusters of about ten, Gr dekas, a company of ten) a b
 - P very thin, of two easily separable strata, tan-grey or tan If whitish G adnato-decurrent, subdistant, white
 - Cespitose, in clusters of about one foot in diam Woods, oak, beech, by paths, plantations, gardens, orchards, on sawdust Oct -Nov 9×43×½ in Must not be confounded with 130
- 180 C subdecastes Sacc (from its affinity with 179) a b
 - P very thin, campanulate, smooth, even, ivory-white, mid ochicous St silky-fibrous, shining white G rounded, crowded, thin, white
 - Computes Taste and odour none On the ground Supt 3\frac{1}{2} \times \frac{1}{2} \times \
- 181 C aggregata (all (from its growing in clusters aggregatus, collected together) a c
 - P gibbous, then depressed, not fleshy, often excentric, grey or dull ochreous. St whitish G subdecurient, crowded, pale ochreous or flesh-colour
 - Odour strong Woods, oak, on sawdust, mushroom beds July-Oct $3\frac{1}{2}\times 3\frac{1}{2}\times \pi$ in Becoming rufous struned
- 182 C elixa Kurst (from its sodden condition in wet weather, clixus, sorked) a b
 - P gibbous, very fleshy, hygrophanous, sooty brownish or greyish, becoming pale St pallid brownish G decurrent, distant, white
 - In troops Woods frequent Oct-Nov 4\frac{2}{3} \times \frac{2}{3} \times \times \times \text{tory bibulous,} becoming saturated with monsture, heavy and brittle in wet or frosty weather, breaking with its own weight
- 183 C fumosa Quel (from its smoky colour, fumus, smoke) a b c P subgibbous, then plane, grensy-looking brown to haid whitish, mid sometimes slightly scurfy is in 69 St whitish or brownish G rounded, adnate, or decurrent, crowded, greyish or brownish-white, or yellowish-olive-white.
 - Gregimous or crespitose in groups a foot or more in diam. Suspected poisonous Tasteless or insipal odour strong, fungorid, or none. Woods, often on wood ashes old studiest, amongst grass, on rubbish hcaps, on earth where trees have been felled uncommon June—Nov. 4½×2½×8 in Often in company with 277 and 1377.
- 184 C tumulosa Sacc (from the mound like appearance of the connate groups, tumulus, a mound) a b
 - P gibbous, umber becoming pale St floccoso-pruinose, white G subdecurrent, crowded, white to livid grey
 - Larger forms laxly cæspitose, smaller, densely cæspitose. Woods. Sept $3\frac{1}{8} \times 3\frac{1}{2} \times \frac{9}{4}$ in
- 185 C pergamena Mass (from its colour, like parchment, pergamena) a
 - P umbonate, at first brown St solid, with a brittle cartilagenous bark G broadly sinuato-decurrent
 - Caspitose Stumps Oct $2 \times 5 \times \frac{5}{16}$ in The habitat and cartilaginous bark point to Collybia rather than Clitocybe

186 C eryptarum Mass (from its occasional appearance in cellars, crypta, a vault) a b

P subconical, then depressed, floccose, pale buff or brown, spotted St hollow, paler than P, mottled within G subdecurrent, white

Densely exspitose laste insipid, odour none Sawdust Oct $2\frac{1}{8} \times 3\frac{1}{2} \times \frac{7}{8}$ in With the varying habit and size of 184

187 C monstrosa Gill (monstrosus, strange) a b White

P convexo-umbonate St solid, white-farmose above G rounded, crowded

Often densely crespitore Probably edible. On the ground expt -Oct $2\frac{1}{6} \times 1\frac{1}{2} \times \frac{7}{8}$ in May be an autumnal form of 122 or a variety of 133, or a form of 94. It may be a Tricholoma, as suggested by Berkeley, but cannot be a form of 124 as suggested by Fries. It is more probably a form of 123, the spores are the same in size. Stem sometimes 6 in long

188 C opaca Gill (from its opaque colour) a b c White with a silvery glare

P convexo-plane, subumbonate then repand, floccose St stuffed G adnato-decurrent, very crowded Flish pale brownish

Single or connate Woods Oct-Nov $3 \times 23 \times 7^5$ in A close ally of 171

189 C occulta Mass (from its doubtful characters, occultus, hidden) a Cartilaginous, tough

P convexo-plane, then slightly depressed, innato virgate mid livid-smoky, marg whitish St solid, paler than P oi white G subdecurrent, subdistant, white

Gregarious Charred ground Nov 3 × 21 × 1 in

c Infundibuliformes

190 C maxima Quel (maximus, the greatest) a b Tan-whitish P thin, umbonate, marg even St solid G subcrowded, not branched Flesh white

Odour weak and pleasant, sometimes strong Grassy places, hedge banks, woods, pastures, frequent Juh-Nov 10½ × 4½ × 1½ m Sometimes a foot or more high and broad Often confounded with 1172 the latter has no umbo, has a sulcate margin, is less infundibuliform, has branched gills, and a short stem

191 C infundibuliformis Quél (infundibulum, a funnel, forma, form) a b c

P thin, typically umbonate, pale buff then white St spongy-stuffed, ivory white G subcrowded, ivory-white

Odour usually weak and pleasant, often like anise, sometimes none Woods, grassy places, near trees, beeches, rirely on rotten wood, common June−Dec 3½ × 1½ × ½ in A variable species libere is a wholly white variety Var membranacea Gill P membranous, brick red Woods, pune

- 192 C trullæformis Karst (trulla, a ladle, forma, form) a c
 - P thin, flocculoso-villous, dry, brown grey to brown St spongy-stuffed, ashy-grey G distant, connected by veins, white
 - Borders of fir woods, amongst grass and bushes Oct $2\frac{1}{4} \times 1\frac{7}{8} \times \frac{1}{4}$ in Must not be confounded with 208
- 193 C ineilis Gill (from its incised or ciente pileus, incilis, incised) a b
 - P plano-depressed, silky-flocculose, reddish St hollow, attenuate downwards, colour as P G distant, veined, white
 - Odour strong of meal, sometimes none Woods, under firs Nov $2\frac{1}{5} \times \frac{3}{4} \times \frac{3}{4}$ in Kesembles a small 1297
- 194 C sinopiea Gill (from Sinope in Patagonia, where red-lead is found—from the vermilion brownish pileus) a b c
 - P slightly depressed, floccoso-rivulose, dry St stuffed, colour as P or buff G subdecurrent, very crowded, white, then vellows.h
 - Woods chieft on burnt places. Oct. $1\frac{3}{8} \times 1\frac{1}{4} \times \frac{3}{15}$ in Resembling a small 1300
- 195 C parilis Gill (from its symmetrical growth) a b c
 - P subdepressed, atomate or flocculose, brownish, mottled darker, then white-grey St stuffed, pale yellowish-brown or browngrev G very crowded, ivory-grey
 - Woods, sides of plantations Sept-Oct 2½ × 1½ × ½ in Resembling a Lactarius Must not be confounded with Tricholoma or Omphaia
- 196 C gilva Quel (gili us, pale vellowish-brown) a b c
 - P subdepressed, sometimes reddish, guttate-spotted St paler than P G pallid, then otherous
 - Woods pine Oct -Dec 3 × 2½ × ½ in Staining paper umber when dried Kesembles in form Paxilin and Lactarius
- 197 C subinvoluta W G Sm , Agaricus subinvolutis W G Sm (from the subinvolute margin of the pileus) a b Wholly pale buff, at length slightly spotted or clouded buff or yellow
 - P flesh, plant, subdepressed, mid darker guttate-spotted, marg at first subinvolute St solid, subbulbous, darker below G decurrent, broad Ph.sh buff white darker below
 - Under firs Oct $3_5 \times 2_2^1 \times _3^2$ in Not Azaricus subinvolutus Batsch, which is a form of 1181
- 198 C geotropa Quel (from the often strongly deflected margin of the pileus, Gi ge, the earth, h ερο, to tuin) a b ε
 - P depressed, typically umbonate, pale brown, at first guttatespotted St attenuate upwards, tan-brownish G white
 - Sometimes in fairy rings of great size Odour of almonds Woods pastures Sept-Dec 6½ × 6 × 3 in Pileus sometimes 9 in in diam Varies with a short stem and caumbonate Intermediate forms occur between this and 197

- **199 C** spinulosa Sacc (from a mistaken reference to the supposed spinulose spores) *a b*
 - P plane, subdepressed, umbonate, leathery, pale buff to rufescent flesh-colour St red-buff above, paler below, concentrically cracked white, as in 21 G white, then light yellowish Flesh white
 - In troops or two or three connate Odour sweet, pleasant Amongst grass by roadsides Nov 4 × 3\frac{3}{4} × \frac{3}{2} in
- 200 C splendens Gill (splendens, shining) a b
 - P depressed, pale shining metallic-yellowish, shaded reddishbrown St solid, attenuate upwards colour as P G white, then light yellow
- Solitary Woods, amongst dead pine leaves, etc. Sept. $4 \times 1\frac{7}{5} \times \frac{6}{5}$ in Intermediate between 196 and 202
- 201 C inversa Quel (from the down turned margin of the pileus)
 a b c
 - P depressed, somewhat fragile, oily-smooth in appearance, not guitate, vellowish-buff to dull crimson-biownish St stuffed or solid lighter than P G whitish or vellowish Flish as P but lighter
 - Solitary, subgregations or expitos. I take same as mushicom, odour acid Woods, chieft fir, sometimes on logs, frequent Aug. -Dec 3½×3×½ in Not unlike 1299 in general appearance. A luxurant form is Agaricus lobatus Sowichs.
- 202 C flaceida Quel (from the limp pileus, flaceidus, limp) a b c P broadly umbilicate, sienni or buff St subhollow, pale sienna G obcomico-decurrent, crowded, whitish, becoming yellow Flsh white to brownish
- 203 C vermicularis Quel (from its colour, zamis, a woim) a b P broadly umbilic ite flosh-colour or light brownish St vellow to white G arcuato decurrent, colour as St Flish lighter than P
 - Fir woods Sept -Oct 21 × 25 × g in Keembling a small 1288
- 204 C senilis Gill (from the wrinkled aspect of the pileus senilis,
 - P infundibuliform, concentrically cracked, olive-brown or tanbrownish. St solid, paler than P-G decurrent in a straight line paler than St
 - Gregarious Odour none Woods, june lawns, etc. Autumn 3\frac{1}{4} \times 1\frac{3}{4} \times 1\frac{3}{4}
- 205 C eatinus Quel (from its bowl shaped pileus, catinus, a bowl) a
 - P depressed, becoming flesh colour St spongy-stuffed, attenuate upwards G colour as P
 - Odour pleasant Amongst dead leaves Autumn 24 × 2 × g in

- 206 C tuba Gill (from its trumpet-shaped pileus, tuba, a trumpet)
 - P narrowly umbilicate, sometimes pale blue-grey St stuffed or hollow, colour as P G deeply decurrent, very crowded, white
- 207 C ericetorum Quél (from its habitat, cricetum, a heath) a b c P deeply depressed, and St solid, attenuate downwards G subdecurrent, subdistant
 - Odour pleasant Sept Nov 1 $\frac{1}{4} \times 1 \times \frac{1}{4}$ in Resembling 1214 in appearance

d Cyathuformis

- 208 C cyathiformis Quel (cyathus, a cup, forma, form) \(\tau \) b \(\cho \)
 P broadly umbilicate, deep brown, pale when dry \(St \) attitudate upwards, pyler than \(P \) \(G \) distant, pyle brownish-white \(F \) is b colour as \(G \).
 - Woods, pastures etc rarely on rotten wood and tan heaps common $Aug-\Gamma cb$ $2\frac{1}{4}\times 2\frac{1}{4}\times \frac{d}{3}$ in Must not be confounded with 192
- 209 C cinerascens W G Sm, Agaricus cinerascens Batsch (from its colour canis, ashes) a
 - P plano-depressed, lavender-brownish St equal, striate, pale greyish or brownish G adnato-decurrent, white, then yellowish or grey
 - Amongst moss Autumn 14 × 13 × 15 in
- 210 C expallens Quel (expallens, growing pale) a b
 - P plano-depressed, very waters, white or pale brown St hollow-flocculose, paler than P G adnato-decurrent, white or greyish
 - Woods, mixed, pastures, etc. Aug –Dec. $2 \times 1\frac{1}{6} \times \frac{7}{16}$; in Smaller, usually earlier, paler, less depressed and with less distant gills than 208
- 211 C obbata Quel (from the cup-shaped pileus, abba a cup) a c P deeply depressed, submembranous, blackish brown or blackishgrey, marg striate St hollow ashy-brown G distant, dull grey
 - Odour none Woods, fir, downs Oct Nov $I_{L}^{1} \times 2 \times \frac{3}{10}$ in
- 212 C pruinosa Quel (from its pruinose appearance) a c
 - P broadly and somewhat deeply depressed, sometimes squamulose, olive-brown, then grey St piler than P G crowded, white, then dull yellowish
 - Odour none Pine woods amongst moss, sometimes on rotten wood Nov Dec $3 \times 1\frac{5}{8} \times \frac{1}{4}$ in

- 218 C concava Gill (from the concave pileus) a c
 - P deeply umbilicato-depressed, very thin, tough, grey- or olivebrown, marg not striate St ashy-grey G very crowded, colour as P
 - Often gregarious Odour none Plantations, woods, fir, pastures, rare Sept $2\frac{1}{8} \times 1 \times \frac{3}{18}$ in Must not be confounded with *Omphalia*
- 214 C brumalis Quél (from its usual time of appearance, bruma, winter) a b c
 - P broadly plano-umbilicate, brown or whitish St hollow, paler than P G crowded, livid to yellowish-white
 - 1 aste sometimes shightly nauseous odour w.c.k, eurthy, not unpleasant, exanescent or none. Woods, on pine leaves, monogs theather, on commons, on dirt heaps, common Oct−lan 2×2½ ½ in

e Orbiformes

- 214a C orbiformis Gill (orbis, a circle, forma, form) a c
 - P convex, plane, obtuse, not truly depressed, glabrous, hygrophanous, smoky-grey, marg spreading, even St, stuffed, elastic, somewhat striate, attenuate and naked upwards, grey, base downy G adnato-decurrent, somewhat distant, greyishwhite
 - Odour none Grassy places in pine woods Autumn $2 \times 3 \times \frac{3}{17}$ in Analogous with, but not allied to 208
- 215 C metachroa Quel (Gr metachroos, changing colour) a b c
 - P umbonate, then plano-depressed, ochreous-whitish to brownishgrey, marg at length striate St white G adnato-decurrent, ashy-whitish
 - Odour none Woods, pine, dry places grass woods, on leaves, rotting fern, turf, earth, dirt heaps May-Nov $\mathbf{1}_{\frac{1}{4}}^{\frac{1}{4}} \times \mathbf{2}_{\frac{1}{3}}^{\frac{1}{3}} \times \mathbf{1}$ in
- 216 C pausiaca Gill (from its olive-coloured gills, pausia, an olive) a c
 - P plano-depressed, subumbonate, tan, brown or grey St ashygrey, white above G obtusely adnato rounded
 - Odour weak of meal Woods, pine Oct 18 x 14 x 1 in
- 217 C ditopus Gill (from the habit, often growing in twos, Gr dittes, twofold, pous, a foot) a b c
 - P broadly umbilicate, horny, dark ashy grey, or dull brown- or fuscous-ochre, marg clouded-sooty St hollow, pale ashygrey G adnate, crowded, colour as P
 - Odour strong of new meal Woods, pine, dead leaves Oct $3 \times 2 \times \frac{1}{4}$ in
- 218 C diatreta Quel (from its perforate stem, Gr diatretos, perforate) a
 - P plano-depressed, flesh-colour, then tan St pallid flesh-colour G adnato-decurrent, colour as St
 - Odour almost obsolete Woods, pine Autumn $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$ in

- 219 C fragrans Quél (fragrans, sweet-scented) a b c
 - P broadly depressed, palled white, marg substriate St colour as P G adnato-decurrent, somewhat crowded
 - Odour strong of anise Woods, pastures July-Jan 2½×3×36 in Often attacked by the mould, Sporodinia Aspergillus
- 220 C angustissima Gill (from its very narrow gills, angustus, narrow) α b Pallid white
 - P broadly umbilicate, very thin, firm St fibrous, flexuous G decurrent, very crowded

Odour none Woods, amongst leaves Oct $2 \times 2\frac{1}{2} \times \frac{1}{8}$ in

- 221 C obsoleta Quel (from its pallid tint, obsoletus, faint) a c
 Hygrophanous

f Versiformes

- 222 C, ectypa Gill (from the projecting sooty squamules in the middle of the pileus Gr cktupes, worked in relief) a b
 - P fleshy, plano-depressed, yellowish or brownish, marg striate St attenuate upwards, dull light vellow, becoming black at base G decurrent, white, then rufous-spotted
 - Gregarious, often crespiose Odour pleasant of anise, becoming fetid Neadows, damp places Dec $2\frac{1}{2} \times 5\frac{1}{4} \times \frac{n}{16}$ in Often greath resembles 69
- 223 C bella Gill (hillus, benutiful) a c
 - P convex, umbilicato-depressed, orange, sq rufescent St pale orange G adnato-toothed, broad, yellow, rufescent or pale flesh colour
 - Subcæspitose Fetid Plantations, fir, sometimes on rotten fir wood, uncommon Sept $1_8^2 \times 1_4^3 \times 1_{1_1}^3$ in
- **224 C laceata** Quel (from the red colour—as of gum-lac—of the pileus) a b ϵ
 - P convex, plano umbilicate, then repand, mealy-squamulose, rufescent, becoming ochreous St usually attenuate downwards, fibrillose, colour as P G adnato-toothed, flesh-colour

 - Agaricus Sadleri B & Br placed in this position by Stevenson is probably the same as 824 Berkeley has proposed a new genus, Laccaria, for the reception of 224 and its allies
- 224a C proxima Boud (from its being like the brown form of 224) a
 - P convex, then plane, glabrous, yellowish-brown St even, smooth, paler than P G adnato-decurrent, somewhat pink
 - Woods Oct $1\frac{3}{4} \times 2\frac{1}{4} \times \frac{3}{16}$ in Differs from 224 in the glabrous P and warted spores

VIII COLLYBIA Quél

(From the pileus, which is frequently small and regular in form like a small coin, Gr kollubos)

Vill almost obsolete, when present represented by a fibrillose, floccose, or pruinose covering Hymenophoic confluent with, but heterogeneous from the cartilaginous stem Pilius slightly fleshy to

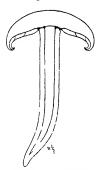


Fig 17 —Section of Colly lia m w u lata Quel One third natural size

thin, margin at first involute Stim central, wholly cartilaginous, or with a cartilaginous bark and stuffed with a pith often rooting, simple Gills membranous, soft, free or adnexed Spores smooth (Fig. 17)

Often small, frequently somewhat tough, maturing more slowly and lasting longer than other Agarics. The species grow on stumps branches and leaves, sometimes on other fungi or on the ground Must be carefully distinguished from members of Marasmus, where the species are less fleshy, less putrescent, more leathery, and revive with moisture after becoming dry.

Species 225—286

A Gills white or brightly coloured, not ashy Flesh white

a Strucpedes Stem stout, hollow, or with a spongy pith, longitudinally strate, except 225a

Gills broad, except 228, somewhat distant 225—229
Gills crowded, narrow 230—236

b Vestipedis Stim thin, equal, fistulose or with a pith, even, velvety, floccose, or prumose

Gills broad, somewhat distant 237—242
Gills very narrow, very crowded 243—249

c Levipedes Stem thin, equal, fistulose naked, smooth except at base, not conspicuously striate

Gills usually broad, lax, commonly more or less distant

250 - 260

Gills narrow, crowded except 270

261 - 270

B Gills becoming cinereous Hygrophanous

d Tephrophanæ Colour fuscous, becoming cinereous

Gills crowded, somewhat narrow 271 - 278

Gills very broad, except 285, more or less distant 279-286

a Struepedis

225 C radicata Quel (from the rooting stem, radix, a root) a b c P glutinous, umber mid radiato-rugose St rigid, brittle, attenuate downwards, deeply rooting, white G adnexed or adnate, sometimes with a tooth

Solitary On and about stumps, amongst fir-leaves, common June-Nov 42 × 1-23 × 1 in There is a white viriety

- 225a C, Henriettæ Sacc (after Henrietta Smith, who first found it) a b
 - P dry, even, somewhat downy, somewhat yellowish-umber St attenuate upwards, even, slightly rooting, subprumose, pale, pallid vellowish-brown within and without, somewhat darker below G broad, broadly adnate, distant, slightly rounded near St I lish very thin

On and about trees sumps, etc. Sept. 4 × 78 × 1 in Intermed ate between 225 and 226

225b C retigera Bres (from the net-like veining of the pileus 1cte, a net, gero, to carry) a b

P thin, campanulate, expanded, subumbonate dry, glabrous,

with a network of anastomosing veins best seen when old, pallid, mid shaded tawny brown marg striate. St equal, solid to stuffed, pallid, minutely downy at base, somewhat rooting G somewhat broad, ventricose, edge fimbriate, pallid

Bases of stumps, ash, beech Dec $2 \times 3\frac{1}{4} \times \frac{1}{4}$ in

226 C longipes Ouel (from the long stem lon, us, long, pes, a foot) a b c

P dry, velvety, hvid brown St attenuate downwards, deeply rooting, villous, dark brown, varying paler G rounded, adnexed, white

Stumps, etc., uncommon Aug -Oct 21 × 91 × 1 in

226a C eriocephala Rea (from the velvety pileus, Gr erwn, wool, kiphali, a head) a

P convex, expanded, velvety, fulvous tawny St stuffed, then hollow, fusiform, extended into abundant long branched rhizomorphoid proliferous brown mycelium, striate, mid

slightly velvety, colour as P above but paler, brown below G smuato-adnate, distant, pale to deep ochre Flesh thick at mid, thin at marg, yellow-white, then yellowish, rufous externally at base

Cespitose Interior rotten elm Jan 21 x 31 x 8 in Rooting base 42 in

- 227 C platyphylla Quél (from the broad gills, Gr platus, broad, phullon, a leaf) a b c
 - P flat, ashy- or livid-yellow-brown to sepia, streaked fibrillose St not attenuate or rooting, colour as P G adnate or adnexed
 - Woods amongst leaves, on rotten logs, rare Mav–Oct $4\frac{1}{4} \times 4\frac{3}{4} \times \frac{6}{8}$ in 1 requently springs from a villous cord like mycelium The var repens Gill resembles 105
- 228 C semitalis Quél (from its growing in footpaths, semita) a b c
 P plane, hygrophanous, sooty brown, vellowish or grey when
 dry St attenuate upwards, greyish G sometimes narrow,
 adnato rounded, sometimes with a tooth, white, brown-spotted
 Sometimes caspitose On the ground after much rain Oct \ov
 3\frac{3}{4} \times 4\frac{1}{4} \times \frac{1}{100} \times \fra
- 229 C fusipes Quel (from the spindle shaped stem *fusus*, a spindle, pes, a foot) a b c
 - P convex, unibonate, brown St attenuate downwards, rooting, often split, yellowish G adnexed, pale brown, pinkish, faintly brown-spotted
 - Considered edible by some persons Stumps, common June-Nov 2½ × 4½ × ½ in Nor adematopus has a stout ventricose St
- 229a C laneipes Gill (from a fancied resemblance in a longitudinal section of the stem to the blade of a spear lancia, a spear, pis, a foot) a b
 P convex, expanded, umbonate, radiately rugose from mid, dry,
 - P convex, expanded, umbonate, radiately rugose from mid, dry, glabrous, pale flesh-colour, becoming pallid marg striate St solid or stuffed with twisted filaments, striate, gradually attenuate to the rooting, downy base, whitish or pale flesh-colour G adnesed, emarginate, broad behind, distant, thick, firm, connected with veins, pale flesh-colour Flesh thick, firm, not watery
 - Solitary, scattered, rarely clustered On the ground Autumn $2\frac{1}{2} \times 5 \times \frac{3}{4}$ in Every part firm and rigid
- 280 C maculata Quel (from its fox) stains macula, a spot) a b c
 White or pale brown, spotted—sometimes wholly rufescent
 - P convexo-plane St hard, subventricose, attenuate downwards, sometimes deeply rooting G rounded free
 - Taste elightly acid, unpleasant, odour not unpleasant. Woods, chieft pine, beech, alder, moist places. May-Nov. $3\frac{1}{2} \times 4\frac{1}{2} \times \frac{3}{4}$ in There is a permanently whitish or white var *mmaculata* Mass , with \$G\$ sometimes abnormal, labyrinthiform, merulood. Var *scorzoncrea* Gill Small, yıllow , \$S\$ long rooting , \$G\$ yellow

281 C'fodiens W G Sm, Agaricus fodiens Kalch (from the rooting stem, fodiens, digging) a

P convex, faintly vellowish, mid ochreous-flesh-colour St ventricose, attenuate downwards, rooting, white G rounded or emarginate-free, yellowish-white

Odour of meal Grass borders Oct 3\frac{1}{2} \times 5\frac{1}{4} \times 1 in

232 C prolixa Gill (from the stretched out appearance of the pileus. prolixus, stretched out) a h

pileus, protivus, stretched out) a b
P campanulate, subumbonate, rufescent-brown, mid darker
St solid or imperfectly hollow, often contorted, paler than P
G rounded-free, whitish, unspotted

In dense clusters on leaf heaps Aug -Sept $4\frac{4}{7} \times 4\frac{1}{7} \times \frac{1}{2}$ in

233 C distorta ()uel (from the twisted stem) a b c

P convex, subumbonate, buff-brown, mid darker, usually with darker blotches St attenuate upwards, pale brown G rounded-free, livid white, stained brown if bruised

Gregarious or fasciculate Taste insipid odour strong, mephitic, like 35 On tree roots, pine, rotten pine trunks, heaps of leaves Oct -Nos 24 % 4 × § in Somewhat re-embling 230

234 C butyracea Quel (from the pileus, buttery to the touch, butyrum, butter) a b c

P plane, subumbonate, pale brown with a darker marginal zone, mid almost black St attenuate upwards, pale rufescent or ochreous-brown G adnexed, white Ftsh pale brown

Woods, fir Jan - Dec 31 x 21 x 1 in Becomes whitish when dry

234a C bibulosa Mass (from the bibulous substance) a b

P fleshy, subglobose, obtuse, expanded, moist, very smooth, even, deep olive- or blackish-green when moist, pale grey to whitish when dry S' cartilaginous, spongy within, stuffed to imperfectly hollow, attenuate upwards, minutely striate, pale clear warm-brown, often rooting into the wood G adnexorounded, thin, edge subundulate, dingy

In groups of three or four Stumps Autumn 2 × 3 × 3 in

235 C stridula Quel (strideo, to creak, derivation obscure) a b P broadly umbonato-plane, dark brown St fibrous, paler than P G adnexed, pale brown

On the ground Oct 21 x 21 x 1 in

235a C pulla Gill (from pullus, dark-coloured) a b

P fleshy, thin, fragile, campanulate, then expanded obtuse, smooth, even, glabrous, hygrophanous, shining dark rich brown, purplish-bay, livid purplish-slate or nearly black, paler when dry St hollow, twisted, somewhat striate, soft, naked, sometimes slightly rooting, whitish G adnexed, somewhat broad, crowded, transversely pellucid-striate, whitish Flesh white

Under birch trees, amongst Polytrichum Oct $2\frac{1}{2} \times 3\frac{7}{8} \times \frac{1}{4}$ in

236 C xylophila Gill (Gr xulon, timber, philos, loving) a

P campanulate, subpapillate, very thin, ivory-white, mid ivory-buff St ivory-buff, pale yellowish-brown within G adnate with a tooth, white

Gregarious, cæspitose Stumps and rotten trunks of elm, etc. Sept $3\frac{1}{2} \times 3 \times \frac{1}{2}$ in

b Vestipedes

287 C velutipes Quél (from the velvety stem, τellus, fleece, pes, a foot) a b ε

P plane, fleshy, viscid, vellow, mid brown St yellow above, brown and almost black towards base, or wholly brown G adnate or adneved, pallid white or yellowish

Cespitose Taste agrecable Trunks stumps sometimes on timber common Aug-April 28 × 21 × 11 Sometimes sprin, s from a luxuriant golden by-sood mycelium (Commun autrennum Tink), sometimes from thick cord like, branching and deeply rooting mycelium or from a selection See 1569 The var inheteent Sace becomes foxy spotted

238 C laxipes Quel (from the lix stem, laxis, lax, $p_e s$, a foot) a b

P convexo-plane, moist, white St white above, rich brown below G adnexo-free, white

On wood, chips, twigs Γ cb $\frac{7}{8} \times 3\frac{1}{2} \times \frac{1}{16}$ in

239 C mimica Sacc (from its resemblance to 709) a b

P flut, thin, smooth, with a separable cuticle pale yellow-buff, mid buff-brownish St solid apex subpruinose with brownish bark, attenuate downwards, fibrilloso-strigose at base, yellow-buff above, deep brown below G adnate with a tooth

Laste and odour strong of fish. On deal shavings. Now $1 \times 2 \times \frac{1}{5}$ in

240 C floccipes, Gill (from the floccose-woolly stem, floccosus, floccose, pes, a foot) a b

P plane, umbonate, deep umber St hollow, black punctato-floccose on a white ground G adnexed, white

On the ground and about trunks Sept $1\frac{1}{5} \times 2 \times \frac{1}{1^{1}}$ in

241 C vertirugis Sacc (from the rugose pileus, vertex, the top, ruga, a wrinkle) a b c

P convexo-plane, radiato-wrinkled, minutely pulverulent, brownashy or indigo-lead colour St strigose at base, brown, paler above G adnate, whitish

Rootstocks of dead ferns, twigs, stumps, etc Sept -Oct $\frac{7}{8} \times 3\frac{1}{8} \times \frac{1}{16}$ in

242 C stipitaria Gill (from its habitat, stipes, a stem) a b c

P umbilicato-plane, velvety or fibrillose, mid pale ochre to sienna, marg whitish St tough, fibrilloso-shaggy, light to dark sienna G adnexo-free, white

Frequent July-Nov & X 18 X 18 in

- 248 C hariolorum Quél (from its fancied use by soothsayers, hariolus, a soothsayer) a b
 - P campanulato-convex, smooth, pale ochreous-white, mid ochreous St colour as P or gradually dark fuscous below, naked and pallid above G adnato-free, whitish
 - Densely gregarious, somewhat coepitose Odour strong Woods, amongs' dead leaves, beech, sometimes on rotten wood Sept 13 × 28 × ½ in Closely allied to Marasmus
- 244 C confluens Ouel (from the confluent stems) a b c
 - P convexo-plane or subumbonate, tough, white-buff St compressed, pulverulento-woolly, white or pale brownish-lavender or purplish
- In troops or connate confluent rows Amongst fir leaves, frequent Junc Oct $2 \times 3\frac{1}{8} \times \frac{1}{4}$ in Closely allied to Marasmus
- 245 C ingrata Quel (from the unpleasant odour, mzratus, unpleasant) $a\ b$
 - P umborato-expanded very thin, pale had buff St brownish-purple, white mealy above G free, colour as P
 - C espitose I ask none, or slightly sweet odour slight, mouldy fungoid, sweetish unpleasant Woods, pine damp places uncommon Aug—Oct $2 \frac{1}{4} \times \frac{1}{4}$ in There is a smaller form one half the size of tyje
- 246 C conigena Quel (from its hibitat, conus, a cone, gigno, to bear) a b c
 - P convexo-plane or slightly umbonate, smooth, whitish-ochre or brownish St strigose at base, white G adnexo-free, white
 - Usually gregarious Under conifers on the cones and amongst the leaves June-1 ic $1 \times 2\frac{1}{4} \times \frac{1}{6}$ in Must not be contounded with 259 and 260
- 247 C cirrhata Quel (from the twisted base of the stem, arrus, a curl) a b c
 - P convexo-plane, slightly silky, white mid pile sienna St flexuous, attenuate and twisted at the smooth or strigoso-fibrillose base G adnate, white
 - In troops Amongst leaves of fir, etc., and decaying fungi y = -Nox $\frac{8}{8} \times 3 \times \frac{1}{16}$ in Must not be confounded with 1424a
- 248 C tuberosa Quél (from the tuberous base of the stem) a b c

 P conveyo-plane, subumbonate, slightly silky, white, mid faintly ochreous St slightly pulverulent, base smooth, sometimes fibrillose, occasionally proliferous, attached to a sclerotium G adnate, white
 - Gregarious On dead Agaries, Russilla (1306–1307), Lactarii, on Polyforus squamorus, fir leaves, rotten fir twigs, amongst moss, etc. Aug.—Nov. 2½ × 4½ × 1/6 in. Fries says the summer form has no selerotium, this is very doubtful. The autumnal forms may have no selerotium as the floccose mycelium condenses in winter and forms a summer selerotium.
- 249 C racemosa Quel (from the glandular hams round the stem, racemus, a cluster) a b
 - P expanded, papillate, subtomentose, white or faintly greyish St racemose, apparently proliferous with minute hairs bearing

glands or abortive pilei, colour as P Attached to Scierotium lacunosum G adnate, white

Terrestrial and on putrid fungi, chiefly Agarics, very rare $$^8_3 \times 1^8_4 \times \frac{1}{3}_2$$ in \$1\$ lurns black in drying

c Læripedes

- **250 C collina** Quél (from its frequent habitat, collinus, a hill) a b c
 P expanded, subumbonate, somewhat viscid, pale yellowishbrown St colour as P G adnevo-toothed, white
 - Usually gregarious Grassy slopes, about beech stumps , uncommon Oct $2\times 4\frac{1}{4}\times \frac{1}{16}$ in
- 251 C thelephora Sacc (from its bearing a small umbo on the pileus, Gr thele, a nipple, phero, to bear) a b
 - P campanulate, brown or yellow-brown, paler at marg St brown above and whitish below, or the reverse G adnatotoothed, white to yellowish
 - Gregarious Inodorous Peat bogs, partly dry sphagnum bogs $1\frac{1}{8} \times 3\frac{1}{2} \times \frac{1}{8}$ in A near ally of 250
- 252 C ventricosa Gill (from the enlarged lower part of stem τ enter, the belly) a b c Pale warm brownish
 - P campanulato-convex, slightly umbonate St attenuate upwards and attenuato-rooting, darker below G broadly adnato-toothed
 - Woods ()ct $2\frac{3}{8} \times 3\frac{5}{8} \times \frac{3}{16}$ in
- 253 C Stevensonii Sacc (after the Rev Dr Stevenson, mycologist) a P semi-ovate, viscid, pallid yellow St attenuate downwards, deeply rooting, whitish-yellow above, brownish below G very broad, adnato-toothed, white
 - Old pastures Aug $\frac{1}{8} \times 2\frac{1}{8} \times \frac{1}{16}$ in Kesembling in habit members of Psathyra
- 254 C psathyroides Sacc (from its resemblance to members of Psathyra) a Ivory-white
 - P semi-ovate or conic, subviscid St not rooting G broadly adnato-toothed
 - Oct $\frac{7}{8} \times 3\frac{3}{4} \times \frac{1}{8}$ in Greatly resembles a Mycena Allicd to 253
- 255 C xanthopus Quel (from the vellow stem, Gr xanthos, yellow, pous, a foot) a b c
 P campanulato convex, subumbonate, whitish to deep biscuit,
 - P campanulato convex, subumbonate, whitish to deep biscuit, um sienna St strigose at base, yellow to sienna-biscuit G adnexo-free, whitish
 - Pine woods, amongst cones, leaves and twigs July-Nov 1\frac{3}{4} \times 2\frac{1}{2} \times \frac{1}{3} in Not unlike 1394 in general appearance
- 256 C nitellina Gill (from its colour, nitilla a dormouse) a b
 - P convexo-plane, smooth, reddish-tun or brown, sometimes pale St yellow above, brown below, or tan G adnate, attenuate in front, tan
 - Solitary or gregarious Odour none By roads and paths in woods May-Oct $2\frac{1}{4} \times 3\frac{1}{4} \times \frac{1}{16}$ in There is a very small umbonate variety Alhed to Chtocybe

- 257 C succinea Quél (from its colour, succinum, amber) a b c
 - P plano-convex, smooth, deep rich brown St colour as P G adnate, white
 - Solitary Odour none Woods, mixed, grassy places, under trees May-Dec 18 x 18 x 1 in
- 258 C nummularia Gill (from a fancied resemblance in the pileus to a small coin, nummulus) a c White, sometimes faintly shaded ochreous or reddish
 - P expanded, slightly depressed, somewhat umbonate St attenuate downwards G adnexo-free
 - In troops, cospitose Woods, mixed, amongst leaves and twigs July-Nov $1\frac{\pi}{4} \times 2\frac{1}{8} \times \frac{1}{9}$ in
- 259 C esculenta Ouél (from its edible qualities) a b c
 - P plane, dull ivory-ochreous to umber St attenuate downwards, deeply rooting, yellow to pale reddish-brown G adnexed to adnato-toothed, whitish
 - Gregarious Ldible Task bitter, agreeable to some, unpleasant to others Pastures, grass places near plantations, pine woods, sometimes on hotbeds, common April-May I x 5 x $\frac{1}{16}$ in Sold in Austrian markets as food under the name Augelschwamme
- 260 C tenacella Quel (tenax, tough) a b c
 - P convexo-plane, subumbonate, brown or brownish to white St attenuate and fibrillose at base whitish above, rufescent below G adnexo-toothed, whitish
 - Solitus or in troops Taste pleasant On leaves and cones in pine-woods, and under cedurs April-Dec 1½ × 34 × ½ in The var stabionier Quel roots for four or more inches. It is difficult to distinguish 260 from 259, and neither must be confused with 246
- 260a C planipes Sacc (from the plane stem, planus, plane, pes, a foot) a
 - P orbicular, expanded, somewhat viscid, bay St rooting, colour of P G free
 - Cæspitose Woods Sept 3 x 13 x 15 in
- 261 C acervata Gill (from its growing in dense clusters, aarvus, a heap) a b
 - P hemispherical, then flut, tun or brown St tun to deep rufous-brown G admicro-free, salmon
 - Woods, fir, dead wood, frequent Sept -Oct 21 × 31 × 1 in
- 262 C dryophila Quel (Gr drus, oak, philos, loving) a b c
 - P plane, tan, brown or brownish when soddened, mid faintly ochrous St villous at base, tan to brown G adnexo-free, whitish Flish white
 - Dangerous when cooked according to a case cited by Dr Badham (Esculent Finity), 1863, p. 107). The taste when raw leaves a burning sensation on the fauces und a sense of suffocation. Amongst leaves, woods, hedge-bottoms, gradens, grassy places, common May-Oct $3\frac{1}{4} \times 4\frac{3}{4} \times \frac{1}{4}$ in Variable, gills sometimes sterile. Var finite large, tuited, decumbent, G sulphur

- 268 C aquosa Gill (from its watery substance, aqua, water) a b c P plane to subdepressed, tan-ochreous to ochr.ous St fibrillose at base, ochreous-brown G adnevo-free, pale yellowish Woods, damp places, amongst moss Autumn 12 x ≥ 4 x ½ in
- 264. C extuberans Quel (from the broad umbo, extuberans, swelling) a b c
 - P olive-brownish St attenuate downwards, pale grey-brownish G adneyo-toothed, white
 - Usually solitary when on the ground, cospitore and smaller when on trunks Odour none Amongst griss, hillsides May-Sept 14 × 31 × 31 in
- 265 C exseulpta Gill (from the cut-out, sinuato-rounded gills) a b c P plane, subumbilicate, dull ochreous-orange or umber, pale whitish-buff when dry mid darker St equal or subbulbous, ochreous or sulphur, darker below G adnato- or adnexotoothed, subdecurrent, sulphury
 - Gregarious I aste and odour strong, mushroom like, but with a suggestion of tar. I runks, dead wood, on the ground. May Oct. 11 × 2 × ½ in Dry, tough, restring with most suit, after the manner of a Maranmin.
- 266 C macilenta Gill (macico, lennoss) a
 - P conveyo-plane, subumbonate, deep yellow St yellow G adneyo-free, bright yellow Flish palled yellowish
 - Woods, pine, on leaves Autumn $1\frac{1}{h} \times 2_h \times \frac{1}{h}$ in Kescuilles some of the slender yellow $H_{J_h}, ophori$
- 267 C clavus Quel (from the nail-like shape, datus) a c
 - P hemispherical, orange vermilion St substitutes at base, whitish, brownish below G addressed whitish
 - On fir, twigs, leaves, moss, rare Oct 1 x 1 x 1 m
- 268 C occilata Quel. (from the eye like umbonate umbilicus occilus, a little eye) a b c
 - P white mid pale sienna St attenuate downwards, rooting, fibrillose, brownish-white, or buff above and white below G adnate, white
 - Pine woods, amongst leaves, grassy places, on Jungo mannia uncommon Sept-Oct $_{8} \times 2 \times \frac{1}{10}$ in
- 269 C muscigena Quel (from its habitat, muscus, moss, gigno, to bear) a White
 - P hemispherical, pellucid, thin G admite
 - Amongst moss and grass, near trunks Aug \$ × 11 × 1 in
- 270 C leucomyosotis Sacc (from its resemblance to a pale form of 736, Naucoria Myosotis, Gr. hukos, white) a b
 - P convex, broadly umbonate, pale translucent umber, marg striate St brittle, subpruinose above, colour as P G adnato-sinuate, thick, somewhat distant, whitish
 - Strong scented, somewhat fragrant (In §/hagnum in wet places in bogs May $1\frac{1}{8} \times 3\frac{1}{8} \times \frac{1}{4}$ in Whitish when dry

d Tephrophanæ

271 C rancida Quel (from its rancid odour) a b c

P convex, umbonate, sometimes viscid, dark umber, slate or slate grey, or slate with mid umber St subfusiform, rooting, sometimes deeply, colour as P G adnexo-free, slaty flesh-colour, grey-white or almost white

Laste disagreeable odour strong and offensive when cut or broken, like rancid meal Woods, among st trunks $Oct - Nos = I^T \times 4 \times \frac{1}{2}$ in

272 C eustygia Sacc (Stygian, from its becoming black) a

P convexo-plane, subdepressed, white or white-brownish St attenuate downwards, rooting, white above, grey and punctato-scaly below G adnexo-rounded, dark grey

Odour of rancid meal On the ground Oct 21×31×16 in Black when dry

273 C coracina Gill (from its colour Gr korax a raven) a c

P convexo-exp inded, black to dark- or grev-umber S' attenuate upwards, not rooting, white above, brown below G adnate, grevish or yellowish

Odour strong of new meal Grassy places fir plantations. Now $1\frac{1}{8} \times 1\frac{1}{4} \times 1^6$ in

274 C ozes Karst ((1 ozo to smell) a

P convexo-plane, subumbon ite, grev- or clay-brown attenuate upwards, white above sooty-grey below G adnate, smoky-ohyaceous

Odour of new meal On the ground and on pine leaves Feb $1\frac{1}{4} \times \frac{1}{4} \times \frac{1}{5}$ in

274a C mephitica Karst (from the offensive mephitic odour, sometimes, however, like new meil) a

P flesh, convex, subumbonite hygrophanous, smooth dry, silks, greyish-ochre, becoming whitish & equil, enlarged below, stuffed, gies, white-floccose or pruinose-velvety G obtusely adnite, separating from stem attenuate in front, crowded grey Flish yellowish

Amongst fir needles Oct $I_5^4 \times 2_8^4 \times I^3$ in

275 C inolens Quel (inolens scentless) a

P convexo-plane, umbonate, tan, grevish or rufous St attenuate upwards, slightly rooting at the white, strigose base G adfixed, almost free, whitish- or ochreous-grey

Woods, chiefly pine Scpt - Nov $2\frac{1}{2} \times 2\frac{1}{4} \times \frac{1}{4}$ in

276 C plexipes (fill (from the twisted stem, ple to, to twist, pes, a foot) a b c

P hemispherical umbonate, pale umber or greyish mid darker St attenuate downwards, rooting, pale umber G narrowly adnate, whitish-grey Flish pale umber

Odour none Woods, beech, amongst grass uncommon Sept-Nov $I_4^1 \times 6 \times \frac{1}{8}$ in

- 277 C atrata Quél (ater, black) a b c
 - P plano-depressed, greasy feeling, blackish-umber St fuscous within and without G adnato-decurrent, livid-brownish
 - Scattered or in groups Odour strong, disagricable On burnt ground often in company with 183 685 and 1374 Sept –Dec $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ in Must not be confounded with 369
- 278 C ambusta Quel (from its habitat, burnt ground, ambustus, burnt) a b c
 - P convexo-plane, papillate, umber St paler than P G adnate with a tooth, pale umber Flesh colour as G

Odour of meal July-lov 1 x 11 x 11 in

- 279 C lacerata Gill (from the torn pileus) a White-grey or slightly ochreous-brown
 - P convex, shining, often cracked, sometimes brown-fibrillose St twisted G adnexed, thick

Somewhat crespitose Woods, pine, rare Autumn $2 \times 3 \times \frac{1}{7}$ in

- 280 C murina Gill (from its mouse-colour mus, a mouse) a
- P convex, subdepressed, brown, becoming puler G attenuate-adnexed

Woods, under oaks Oct 11 × 23 × 1 in

- 281 C protracta Gill (from the long stem, protractus, drawn
 - P convexo plane, slightly umbonato-depressed, grey-brown or slaty flesh-colour. St attenuate downwards, rooting, strigose, colour as P, dark slate-colour below. G adfixed, ventricose, grey, white-pruinose.
 - Mossy ground near stumps of pine, etc., amongst dead leaves $-{\rm Aug} {\rm Nov} {\rm 1^1 \times 8 \times \frac{1}{5}}~{\rm in}$
- 282 C tesquorum Gill (from its growing in waste places, tesqua) a P convex or umbonate, fuscous-black or olive brown St white above, brown below G adnexo-free, ashy-fuscous or pale olive-brown
 - Scattered Amongst grass, sunny banl s 2 × 11 × 1 in
- 283 C elusius Gill (clusius, easily closing, derivation obscure) a b c P convenoplane, depressed, whitish tan or greyish mid faintly othreous St shining, colour as P, or paler G adnatotoothed, colour as St
 - Amongst moss, grass, often with 597 Sept -Oct 11 × 21 × 11 in
- 284 C tylicolor Gill (from its colour, that of a small worm, Gr tulos) a b c
 - P plano umbonate, ashy-grey or brown, mid darker M wavy, whitish pulverulent on a grey-brown ground G adnato-free, varying in attachment, livid-brownish or grey Flesh pale brown
 - Taste slightly rank, odour weak or none Shady woods amongst grass Oct $1\frac{1}{4} \times 2\frac{1}{8} \times \frac{1}{8}$ in

285 C DOROTHEÆ Sacc (after Ladv Dorothy Neville) a
P globose, then flat, slightly umbilicate, very thin, dark brown,
marg denticulate St slightly swollen at base, minutely
velvety, white, yellowish or rufous G adnexed, narrow,
white

On dead fern stems in hothouses $1\frac{1}{4} \times 3\frac{1}{4} \times \frac{1}{1}$ in

286 C CALDARII Sace (from its habitat, a caldarium or hot-house) a P hemispherical, slightly umbonite, brown St paler than P G adnato-decurrent, somewhat ashy

On Sphanum in orchid pot & 21 x 1 in

IX MYCENA Quel

((r mukes, a fungus)

Viil almost obsolete, only seen in fibrillae, pile, flock, tomentum or gluten. In Section h, Basipides, the edge of the pileus is connected with the circumference of the basil disc in infancy, and

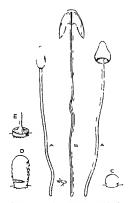


Fig. 18—A. A. Uscente piptiers at a Quel B. ditto in section. One half natural size of Utten-rima Quel young state showing ba al disc and vell. In Uttelbat s Quel young state showing basal disc and cut be basal dusc. C.D. F. enlarged.

so forms a kind of universal veil Hymenophore confluent with but heterogeneous from the cartilaginous stem Pleus at first conicocylindrical, becoming more or less campanulate, submembranous, not cartilaginous, never truly umbilicate, margin more or less

striate, at first addressed to the stem, never involute. A few species as the next genus is approached have the pileus slightly depressed *Stem* simple, slender, central, fistulose (except 310) and cartilaginous, sometimes hair-like, sometimes rooting amongst dead leaves *Gills* adrate or adneved, often simuate, varied in attachment, not truly decurrent, often minutely denticulate or fringed at the edge (Fig. 18.)

Most of the species grow on twigs, stumps, dead branches and dead leaves some grow on the ground. They are usually slender, small, beautiful and scentless, some have a strong alkaline or mephitic odour some contain a coloured juice termed milk. They appear after rain in summer and autumn a few remain till early winter Species 287—366

- a Calodontes Stem juiceless, base not dilated into a disc Gills saw-edged or fimbriate, darker edged 287—297
- b Adouded Colour pure and bright, not becoming fuscous or ashy, except 300 Stm juiceless, base not dilated into a disc Gilly of one colour, including the edge Single, terrestrial, except 306 and sometimes 305 298—306
- c Rigidifiedes Stem firm tough, juiceless, somewhat strigose and rooting Gills white changing to grev or reddish Persistent, odourless, usually growing on stumps and very cæspitose but single examples occur on the ground 307—316
- d Fragilipedes Pileus hygrophanous St.m fragile, juiceless, not dilated into a disc at the base Gills changing colour Normally terrestrial and single, a few caspitose and growing on wood Strong smelling 317—334
- e Filipedes Not hygrophanous Stem juiceless Gills changing colour | I errestrial amongst grass usually single 335—342
- f Lactifiedes Whole plant exuding a white or coloured juice 343—349
- g Glutimpedes Stem glutinous Must not be confounded with species with smooth, moist or slippers stems 350—356
- h Basipidis A small dilated base, bulb or disc at the base of the dry, equal, stem Usually solitary 357—361
- Institute Stem apparently inserted or grafted into dead leaves, etc. Soon flaccid, very tender.
 362—366

a Calodontes

287 M pelianthina Quel (from the hvid pileus, Gr peliano, to make livid) a b

P umbonato-convex, pale brown, dull flesh-colour or lavender, whitish when dry St ochreous-whitish or whitish lavender

G adnate, purplish or brownish-white, minutely black-dotted at edge. Flesh white to faintly purplish

Woods, beech, oak, stumps and dead leaves Aug-Oct $r_8 \times 38 \times 38 \times 38 \text{ m}$ Somewhat resembles 224

287a M carneosanguinea Rea (from the change of colour in the flesh—on section—from white to blood-red caro, flesh, sanguis, blood) a

P convex, subumbonate, smooth, livid-grey mid tinging to rufous, piler when old St grey, yellowish below, base clad with short mycelial threads G adnate, dull purplish-brown with a crimson-ricd edge Thish moderately thick at mid of P and apex of St, white, changing above to bright rose or blood-red

Wood- Aug 11 x 13 x 1 in

288 M balanina Karst (from its frequent habitat, beech-mast, Gr

P convexo-umborate, granulose umber-ochreous St attenuate downwards, satint, white above, deep brown below G rounded, free, spinkled and fringed with dull purple speculæ Beech most acome, oak-leaves, rare Sept $1.8 \times 3.7 \times \frac{1}{8}$ in

289 M 1118 Quel (from its runbow tints. Gr. 1118 the runbow) a b c.

P hemispherical, evanescent blue fibrillose on a pale umber lead-coloured or greenish ground. mire sometimes cobalt St. pilose, pale umber above bright blue-fibrillose at base. G. adnevo-free, forming a collar behind, sometimes denticulate ashy.

On decayed twigs, stumps, chips sticks and cones of fir, often deeply rooting amongst pine leaves Sept-Nov $\frac{1}{8} \times \frac{1}{34} \times \frac{1}{13}$ in

290 M mirabilis Quel (mirabilis, wonderful) a

P control, dull invender-blue mid ochrous St floccose, sub-rooting, bluish below G adnexed, white, edge dotted with dark particles

Fir trunks, amongst H_1pnum Aug $\frac{1}{2} \times 3 \times \frac{1}{16}$ in Perhaps the same as 291

291 M marginella Quel (from the minute fringe at the margin of the galls) α

P contco-convex, floccose, pulled, marg dull bluish. St tomentose and bluish below. G adnate or adnexed, white, edge bluish- or reddish-flocculose.

Fir trunks amongst Hypnum cupressiforme Aug -Sept 1 × 21 × 16 in

292 M aurantiomarginata Quel (from the orange margin of the gills) a

P hemispherical, umbonate, olive-brown St attenuate upwards, pale yellowish G attenuato-adnexed with a tooth, whitish, floccose at edge

Odour strong Woods, silver fir Nov $1\frac{5}{8} \times 1\frac{5}{8} \times \frac{3}{16}$ in

293 M elegans Quél (elegans, neat) a b c

P campanulate, livid yellowish, mid fuscous St floccose at base, livid-yellowish G adnato-decurrent, whitish or yellowish, edge orange

Odour weak of fennel or none Rubus frequent Aug-Nov $\frac{3}{4} \times 2\frac{2}{8} \times \frac{1}{18}$ in

294 M rubromarginata Gill (from the red margin of the gills) a c P hemispherical, subumbonate, white or pale reddish St white G adnato-decurrent, whitish or grey, edge rose or brown-purple

Odour none On brunches, kaves and rotten twigs in woods, chiefly pine and larch frequent July-Nov § × 11 × γ_5 in A vinety, Jusco purpur as Mass, with a dusky purple pileus, grows on willows

295 M olivaceomarginata Mass (from the olive margin of the gills) a b

P conico-hemispherical, subumbonate, honey-colour St colour as P, base tinged rufous G uncinato-adnesed, broad, subdistant, pallid with a brownish-olive edge

Woods, lawns Oct 3 × 15 × 15 in

296 M strobilina Gill (from its usual habitat, fir-cones strabilus) a b P campanulate, acutely umbonate, scarlet, paler at marg St scarlet, white-strigose at base G adnato-decurrent, paler than P, edge blackish-scarlet Flesh crimson

Cones, leaves and twigs of Scotch fir, sometimes in tweeh woods , rare Oct $\frac{3}{4} \times 2 \times \frac{1}{17}$ in

297 M rosella Quel (10seus, rose-coloured) a b c

P campanulate, subumbonate, deep or pale rose St colour as P, seldom strigose at base G adnate, pale rose, edge dark purple

Laxly gregarious Amongst leaves, twigs, and decaying cones in fir woods, uncommon June-Dec $\frac{r}{r} \times 11^{l} \times 1^{l}$ in

b Adonidea

298 M pura Quel (from its pure colour) a b c

P campanulate, broadly umbonate, brittle, flesh-colour, variable in shade St often rooting, flesh-colour, pale ochreous below G sinuato-adnate, veined, whitish to pale flesh-colour

Taste and odour strong, hot, disigneeable, pungent of radish or cabbage stalk Woods, meadows, common | lune-Nov 2×4×1 in | There is a white variet V arie, larger and smaller, sometimes very dark when dry Sometimes attacked by Mucor maco ocarpus

299 M pseudopura Sacc (from its resemblance to 298, Gr pseudos, false) a

Structure and colour same as 298, of which it is probably one of the smaller forms Colour rosy G whitish

Odour none Woods Autumn I × 23 × 16 in

white

300 M zephira Quel (from its coming with the rain-wind or west wind Zephyros) a c

P hemispherical, diaphanous, white flesh-colour, mid often fuscous St white to flesh-colour G adnate, veined, white Decayed fir, amongst dead leaves in woods G and P sometimes foxy stained

301 M Adonis Quel (from its beauty—like Adonis) a b

P conico-campanulate, white, yellow, greenish, orange or crimson St lighter than P G ascending, adnexo-toothed or adnate, colour as St

Woods, pastures, uncommon Sept-Nov $\frac{5}{8} \times 2\frac{1}{7} \times \frac{1}{16}$ in

302 M lineata Quel (from the lined or sulcate pileus) a b

P plane, subumbonate, membranous, pale yellowish St colour as P G adnate, white Flish pale brownish

Amongst moss Sept -Oct I x 21 x 1 in Colour variable

302a M farrea Quel (from the pileus, the colour of ripe wheat and powdered as if with flour farreus, made of spelt) a

P very thin, campunulato-expanded, subumbonate, pale buff-yellowish, becoming pale, shining white pulverulent, marg sulcite, crenulate Si somewhat rooting, silky-striate, pale steel-grey, white pulverulent above G adnate, thin, connected with veins, somewhat fimbriate, white

Mossy and grassy places $1 \times 3\frac{1}{8} \times \frac{1}{10}$ m This and 336a are the only species of the genus with pulverulent pilei

303 M luteoalba Quel (luteus, yellow, albus, white) a b c

 ${\cal P}$ expanded, umbornte, pale yellow ${\cal S}{\cal U}$ white, faint yellowish at base ${\cal G}$ adnato-toothed, shining white

Woods, fir, amonost moss , uncommon – Aug –Nov – $\frac{2}{5}\times 1\frac{3}{4}\times \frac{1}{10}$ in

304 M flavoalba Quel (flavus, light yellow albus, white) a b c P expanded, broadly umbonate, othre biscuit, paler at marg St faint yellowish at base G adnexed or adnate, distant,

In troops Woods and meadows, under firs, frequent July-Dec $1\times 1^{\frac{1}{2}}\times 1^{\frac{1}{2}}$ in

305 M lactea Quel (from the milk-white colour lac, milk) a b c

P campanulate, umbonate, varying faint biscuit St attenuate upwards, fibrillose at base G adnato-rounded or sinuate, crowded

Scattered, rately craspitose. Woods, chiefly amongst and on pine leaves, common July–Dec I × $2\frac{1}{2} \times \frac{1}{3} r$. In Must be carefully distinguished from other species of the genus which become white

306 M gypsea Quel (from its colour, like gypsum) a b

P conico-campanulate, umbonate mid faintly biscuit St attenuate upwards, strigose at the faintly biscuit base G adnexo-ascending or adnate

Cæspitose Insteless , odour alkaline, varying strong to weak Stumps June-Nov $\frac{7}{6} \times 3\frac{3}{4} \times \frac{1}{6}$ in

c Rigidipedes

- 307 M cohærens Gill (from the adherent stems cohære, to stick together) a c
 - P campanulate, broadly umbonate pale umber, cinnamon or orange-brown mid darker marg striate St even, smooth, shining whitish above, downy and ochreous-whitish to dark brown below G rounded-free distant, white to vellowish or greatsh Fit of brown
 - Sometimes olitary Brambles, pine leaves etc., on the ground Oct-I cb $I_{\frac{1}{8}} \times 4_{\frac{1}{4}}^{\frac{1}{4}} \times \frac{1}{8}$ in Kesembles 313 (var calefus)
- 307a M Berkeleyi Mass (after the Rev. M. J. Berkeley) a
 - P campanulate, expanded, subumbonate, hygrophanous, dull brown um darker and brighter, paler when dry many striate. St with a tapering rooting base, somewhat striate dull pale brownish with a purple tinge. G adnato-sinuate with a decurrent tooth, subdistant, ventricose, thin, trigged purplish or flesh-colour. Flish pale flesh-colour, tinged purplish.
 - Solitary or subcrespitose Tree trunks $3\frac{1}{4} \times 5 \times \frac{1}{4}$ in Kooting base, $2\frac{1}{4}$ in May be the same as 309
- 308 M prolifera (fill (from the stem, sometimes denselv proliferous with small individuals at the base) a b
 - P campanulato-expanded, broadly umborate, pale umber marg sulcate St ventricose, splitting, white G adnexed or adnate, white
 - Inodorous at length nauseous Woods and gardens, on gravel, near bushes. Sept-Out $1_8 \times 6 \times 1_7^4$ in There is a white variety
- 309 M excisa Gill (from the cut-out gills) a c
 - P expanded, umborate, brown, mid darker St as in 308, pale brown, white above G adnessed or sinuato-free, thick, distant, hours veined, white, pale brown or purplish
 - Woods, trunks sometimes on the ground Sept Oct $2\frac{1}{8} \times 4 \times \frac{1}{4}$ in Var factorum Kaist Small, among st beech leaves
- 310 M psammicola Siec (from its habitat Gr psammos, sand) a P hemispherical, sprinkled with minute particles, brown marg whitish M solid, rooting, white pulverulent on a brownish ground G adnate, white
 - Sindy banks amongst moss Sept $\frac{3}{8} \times 1\frac{1}{2} \times \frac{3}{3}$ in
- 311 M rugosa Quel (from the wrinkled pileus ru, a, a wrinkle) a b P expanded subumbonate, pale grey-brown mid brownish St subventneose, colour as P G adnato-toothed, whitish later of at length clouble, but a language recommen.
 - Tasteless or at length slightly bitter. On and near stumps, common July-Dec. 2½ × 3½ × ½ in. Very tough and dry
- 312 M sudora (from the viscid pileus sudor, sweat) a b c P campanulate, umbonate, whitish, had biscuit or brownish St colour as P G adnate, white, flesh-colour or yellowish-white Usually solitary Stumps, beech Aug-Nov 1½ x 5½ x ½ in Colour often like 350 or 1228

- 313 M galericulata Quél (from the shape of the pileus galericulum, a little cap) a b c
 - P expanded, broadly umbonate, pale brown , mid darker ${\it St}$ colour as P ${\it C}$ adnato-toothed, veined, white to pale rose
 - Usually tasteless Stumps, bramble, willow, and on the ground, common July-lan $2\frac{1}{8} \times 4\frac{1}{2} \times \gamma_0^2$ in Var calopur Karst has an umber pileus and dark sienna stem ** **Union maco carytus** is frequent on this species
- 314 M polygramma Quel (from the longitudinally striate stem, Gr polus, many, gramme, a stroke) a b c
 - P campanulate, umbonate, pale to dark brown St steel-grey G adnato toothed, attenuate near St, pale salmon
 - Gregarious Oldour disagreeable, or none Stumps, common Sept-Jan 2 × 5g × ½ in
- 315 M parabolica Quel (from the parabolic curves of the pileus)
 - P conico-campanulate, sides incurved, slate, mid umber St attenuate upwards colour as P, paler below G adnato-ascending, white or faint grey Flish brownish-grey
 - Gregarious or caspitose Rotten wood, stumps, especially fir, willow, fern, uncommon Sept -Dec 18 × 21 × 18 in
- 316 M tintinnabulum Quel (from the bell-shaped pileus, tintinnabulum, a bell) a b
 - P plane, subumborate umber varying bluish, vellow-brownish and whitish St white G adnate with a tooth, white or pile flesh-coloui
 - Gregarious, sometimes cuspitose Fallen trunks, beach April-Dec $1^{\frac{1}{6}} \times 1^{\frac{1}{6}} \times 1^{\frac{1}{6}}$ in

d Fragilifedes

- 317 M CODONICEPS Sacc (from the bell-shaped pileus Gr kodon, a bell liphale a head) a b
 - P campanulate, obscurely sulcate and rugulose, hispid, umber, many recurved St attenute downwards, moist, smooth, white above, umber below G vertically ascending, somewhat thick, distant, admite with a tooth, white
 - Single or crespitose Tree fern stems June $\frac{1}{16} \times \frac{1}{2} \times \frac{1}{64}$ in
- **318 M flavipes** Quel (from the yellow stem, *flavus*, yellow, *fes*, a foot) *a b*
 - P hemispherical, rose or flesh-colour St tough, villous at base G adnate, paler than P
 - Odour of radishes Stumps Autumn \$\frac{4}{4} \times \frac{1}{1} \text{b} in
- 319 M atroalba Gill (ater, black, albus, white) a b c
 - P broadly campanulate, dark slate-grey marg whitish St with a large strigose bulb, apt to split as in 320, grey and white G free, white, then glaucous
 - Woods, amongst moss July-Nov $1\frac{3}{8} \times 3\frac{1}{4} \times \frac{1}{8}$ in Shape and colour of 315, habit different

- **320 M dissiliens** Quél (from the stem splitting when broken, dissilio, to burst asunder) a b
 - P campanulato-flat, sulcate, ashy-brown, marg whitish St ashy G rounded-free, white
 - Odour irrapid, sometimes strong, rancid rather than alkaline Trunks, branches, on the ground amongst grass, frequent July-Nov 12 × 24 × 14 in
- 321 M atrocyanea Gill (from the blackish-indigo pileus, ater, black, cjaneus, dark blue) a b c
 - P campanulato-conical, umbonate, sulcate St slightly ittenuate upwards, colour as P G ascending, attenuato-adnate Flesh pale slate
 - Solitary or exespitose Odour none. Amongst fir leaves, on the ground Sept $-Nov = \frac{8}{8} \times \frac{3}{8} \times \frac{1}{16}$ in Becoming black when dry
- 322 M pullata Sacc (pullus, dark-coloured) a
 - P campanulate, umbonate, sulcate, dark umber, becoming paler with age St slightly attenuate upwards, colour as P, base white-floccose G adnexed, white
 - Odour slightly nitrous Amongst dead leaves Oct-Nov $4 \times 3 \frac{1}{5} \times \frac{1}{17}$ in
- 323 M paupercula Sacc (from its appendince faufer, poor) a b

 P hemispherical, white or faint tawns of attenuato-rooting, white G adnesses fice white
 - Odour of fresh meal, or sweet Inside decayed stumps, oak uncommon July-Sept $\frac{1}{3}$ x $\frac{7}{8}$ x $\frac{7}{3}$ m
- **324 M leptocephala** Gill (from the delicate pileus. Gr. *leptos*, fine, *kephal*, a head) *a*
 - P expanded, umbonate suleate, ashy, mid darker St colour as P G emarginate ashy-white
 - Solitary Odour strong of nitre. Or the ground and on trunks Autumn $\frac{1}{4} \times 2\frac{1}{8} \times \frac{1}{16}$ in
- 325 M alkalına Quel (from its alkalıne odour) a b c
 - P campanulate, umbonate, brown or 1shy, mid darker St brown or yellow G adnato-ascending, white, or ashy with a white edge
 - Solitary or caspitose. Odour strong disagracable. Stumps, etc., bramble, privet, fir, uncommon. Jan.-Dec. $1_8 \times 5 \times \frac{1}{2}$ in. Variable in colour, often exhibiting shades of yellow or pile rose. There is a white variety
- 326 M ammoniaca Quel (from its ammoniacal odour) a b
 - P conico-campanulate, papillate, deep brown to greyish, marg ashy St whitish-grey or brownish G adnite, whitish or grey Solitary Odour strong On the ground, amongst grass Sept -Nov $1 \times 3\frac{1}{5} \times \frac{1}{5}$ in
- **327 M metata** Quél (from the pileus, like a *meta*, the conical column at the end of the Roman Circus) *a b c*
 - P conico-campanulate, cream-grey, flesh-colour or livid St colour as P G adnato-ascending, whitish
 - Gregarious Odour alkaline, strong to weak or none Woods, amongst moss Oct-Nov & 3 k x k 11

828 M pheosa Gill (from the sulcate pileus, plico, to fold) a b c P expanded, umbonate, often split, pale tan, mid sienna, marg greyish St colour as P, white at base G adnate, greyish

Woods, on the ground, rare Sept -Oct $1\frac{1}{2} \times 1\frac{7}{8} \times \frac{1}{8}$ in

329 M peltata Gill (from the shield-like pileus, pelta, a small shield) a b

P plane, with a central projecting ring, fuscous-blackish or greyish St pale umber G sinuate, pale grey

Woods, commons, etc., amongst moss rare Aug -Oct $1\frac{1}{4} \times 2\frac{3}{4} \times \frac{1}{16}$ in

330 M consimilis Sacc (from its likeness to various other species of the genus) α

P campanulate, umbonate, splitting, pale grey, mid umber St pale umber G adnato-ascending, pale grey

Odour none Amongst grass Autumn 13 × 2 × 1/2 in

331 M ætites Quel (from the colour, Gr ætites, iron ore) a b e P e panded, umbonate, sulcate, opaque brown-ochre St paler than P or pale livid-umber G adnato-sinuate, veined, white or whitsh-grev Thesh pale brown-ochre.

Scattered or loosely gregations Odour bitter or none Woods, amongst most and grass June-Oct $\mathbf{1}^1_4 \times \mathbf{1}^2_8 \times \frac{1}{8}$ in

332 M stannea Quel (from the colour, stannum, tin) a b
P expanded glistening, grev, sometimes umber St pale tan
G adnato-toothed whitish-grey

Scattered or loosely gregarious Odour none Woods, amongst grass, on the ground Sept-Oct $\frac{3}{4} \times \frac{3}{16} \times \frac{1}{16}$ in

333 M vitrea Quel (from its fragility, vitrum, glass) a b

P campanulate, subumbonate umber mid darker St glistening, paler than P G sinuato-adnate, whitish

In troops Odour none Woods, fit, moist places , uncommon Sept -Oct $_{1\frac{1}{8}} \times 4\frac{1}{4} \times \frac{1}{8}$ in

334 M tenuis Gill (tenuis, thin) a b c

P companulato-convex, white mid pale brown, marg toothed St white G adnate, whitish

Woods, shady moist places, often on the root fibres of trees, rare Sept. $\frac{3}{4} \times 5 \times \frac{7}{16}$ in Watery, delicate, frigile, wavering

e Filipedes

335 M filopes Quel (from the thread-like stem, filum, a thread, pes, a foot) α b c

P expanded, pale livid-brown or whitish St rooting, pilose at base, white G adnexo-free, white or greyish

Singly or in troops Woods, amongst leaves Aug -Nov $1 \times 6\frac{1}{4} \times \frac{1}{32}$ in

- 336 M amieta Quél (from the pulverulent pileus and stem, amicio, to clothe) a
 - P conico-campanulate, subumbonate, greenish, pale slate or livid St rooting, livid G adnexo-free, pale grey with lighter edge
 - Gregarious Odour none Amongst moss and leaves, about roots of *Nardus stricta* Sept. $\frac{4}{3} \times \frac{3}{2} \times \frac{1}{3}$ in
- 336a M plumbea Karst (from the colour of the pileus plumbeus, leaden)
 - P membranous, convexo-flattened obtuse, sulcate, sprinkled white-pruinose St fragile, ashy-pulverulent, white hvaline above strigose below G adnate horizontal, colour as P

Odour none Mossy pastures Autumn \$ x 4 in

- 336b M cinerea Mass & Crossl (from its colour cans, ashes)
 Wholly grev
 - P slightly gibbous or obtuse, then expanded marg stricte, paler and silky when dry 5t glabrous, base white-downy G adnate, subdistant edge paler
 - Amongst short grass Odour strong of radishes $1 \times 2 \stackrel{4}{,} \times 1 \stackrel{1}{,} \text{s.m.}$ Differs from 324 in sultate l', from 327 in white (from 338a in absence of odour
- 337 M debilis Quel (debilis, weak) a c
 - P conico-campanulate, subumbonate, livid-whitish or brownish-salmon St colour as P, fibrillose at rooting base G broadly adnate, whitish
 - Gregarious Woods, chestnut, fir, amongst moss Oct 3 × 2½ × 1/2 in
- 338 M vitilis Quél (from the deep striæ of the pileus τιτίλι», planted) σ b
 - P conico-campanulate, sometimes papillate, brownish, becoming whitish S/ shining, livid G attenuato-adnate or slightly sinuate, whitish or grev or dark ashy with a white edge
 - Solitary or gregarious Odour none Woods, mixed amongst leaves, trequent Sept-Nov $\frac{1}{2} \times 4\frac{3}{8} \times \frac{1}{7}$ in
- **339 M collariata** Quel (from the union of the gills in a minute collar at the top of the stem) *a c*
 - P campanulato-convex, subumbonate, grevish-white, rose-tinged, mid fuscous St smooth, whitish-brown G adnate, hoary white or faintly salmon
 - Woods, amongst grass and oak bark Oct -Nov g x 2½ x 10 in
- **340 M speirea** Gill (from the twisted base of the stem, Gr spen a, a coil) a
 - P plane, umbonate, pallid grey or whitish mid dark fuscous St attenuato-rooting, fibrillose and brown below, white above G adnate, thin, deeply decurrent, white
 - In troops during very rainy weather Woods, mixed, mossy trunks, uncommon Aug –Oct $\frac{1}{2} \times 1\frac{7}{8} \times \frac{3}{12}$ in

- 341 M tenella Quel (tene, tender) a White or livid flesh-colour P campanulato-convex, pellucid G adnato-decurrent Captuse Decayed trees Autumn ½ x 3/2 in
- 342 M acicula Quel (from its resemblance to a small pin, acicula)
 - P conico-campanulate, papillate, orange-vermilion St attenuate and fibrilloso-rooting, deep yellow G adnate or adnexo-rounded, yellow with a whitish edge or wholly white
 - Wood, leaves, twigs, etc., frequent July-Oct & X 1 1 × 1/2 in

f Lactificities

- 343 M hæmatopus Quel (from the blood-red juice of the stem, Gr haima, blood pous, a foot) a b c
 - P conico campanulite, subumbonate, whitish flesh-colour St pulverulent, colour as P G adnate, whitish Milk deep brown-crimson
 - Computors 1 and slightly disagreeable Stumps, old timber, alder, birch , frequent Aug Nov. 12 \times 3 \times 4 in
- 344 M eruenta Quel (from the blood-like juice oruer, gore) a b P conico camprinulate, subumbon ite, brown St tense villous-rooting, paler than P G adnate, whitish Milk deep brownish-crimson
 - Solitary or subcrespitose Woods, pine cones, etc. rare Sept $1 \times 3\frac{1}{4} \times \frac{1}{10}$ in
- 345 M sanguinolenta Quel (from the blood-red juice sanguinolentus, bloody) a b c
 - P hemispherical, brown or purplish-brown St flaccid, fibrillose at base, colour as P G pale purplish brown edge sometimes dark purple Milk brownish-crimson
 - Gregarious Woods chips, twigs, fit leaves, moss ctc, tree fern stems in greenhouses. Vay-Nov. $\frac{1}{2} \times 3\pi \times \frac{1}{12}$ in Sometimes wholly pale brown and varying $\frac{1}{4}$ to $\frac{1}{2}$ in high
- 346 M crocata Gill (from the saffron-coloured juice crocus, saffron)
 - P (onvex, olivaceous, ashy, vellowish of white mid reddish St tense, deep yellow orange-crimson at fibriliose base G adnato-ascending or a linexed, white
 - Scattered Woods, beech amongst leaves, uncommon Autumn $\frac{7}{8} \times 4^{\frac{3}{4}} \times 1^{1}_{1} c$ m A small var appears on beech trunks
- 347 M chelidonia Quel (from the vellow juice, like that of Chelidonium majus) a b c
 - P hemispherical yellowish flesh-colour mid ochreous St firm, yellow at the villous-rooting base G admite, white or yellowwhite Muk, saffron to vinous-red
 - Subce-pitose Odour somewhat alkaline Stumps, beach, alder, rare Oct $\frac{5}{8} \times 2\xi \times \frac{1}{16}$ in

- **348.** M galopus Quél (from the white juice, Gr gala, milk, pous, a foot) a b c
 - P hemispherical, subumbonate, dark then pale purplish-flesh-colour mid blackish St colour as P, base villous G adnexed or adnate, white or glaucous Milk white
 - In troops Almost tasteless or like radishes Woods, amongst moss and leaves, common July-Nov 8 × 2½ × ½ in Sometimes wholly dark in colour
- 349 M leucogala Sacc (from the milk-white juice Gr leukos, white, gala, milk)
 - gala, milk)

 P campanulate, umbonate, purple-brown St lighter than P white tomentose at base G adnate with a tooth, ashy

Crespitose Amongst grass, rotten stumps Oct $\frac{7}{8} \times 3 \times \frac{1}{16}$ in

g Glutimpedes

- 350 M epipterygia Quel (from its frequent growth on brake-fern, Pters aguilina) a b c
 - P conical with a separable viscid pellicle, dark olivaceous then pale livid-sulphur St greenish-sulphur G sinuato-ascending, whitish or greyish Flash pale sulphur
 - Solitary, gregatious or crespitos. (Idour none Woods amongst grass, leaves, dead bracken, on manure heaps, common Aug Dec $\frac{2}{3} \times 5\frac{1}{5} \times \frac{1}{7}$, in There is a white var
- 351 M clavicularis Gill (from its shape, clavus, a nail) a b
 - P expanded, subumbonate, dij, pelliculose, white or light yellowish. St tough, slightly viscid, whitish. G adnato-decurrent, whitish.

Woods, fir, grassy places Oct 3 x 21 x 10 in

- **352** M pelliculosa Quel (from the thin separable pellicle of the pileus) a b c
 - P at first umbonate then plane, viscid, brownish, mid darker St rigid, livid grey-whitish G adnato-decurrent, thick, white
 - In troops during very rainy weather Taste none Heaths, heathy woods, frequent Sept-Dec $\frac{7}{8} \times 2\frac{1}{2} \times \frac{7}{16}$ in
- 353 M vulgaris Quél (vulgaris, common) a b c
 - P convex, depressed, papillate, subviscid, brownish or ashy-grey St attenuate and slightly strigose below, ashy-grey G adnato-decurrent, white
 - Gregarious Odour strong of new meal, or none Woods, fir, amongst moss, on dead twigs, larch and pine leaves , common $July-Nov-\frac{1}{2}\times I_{4}^{4}\times J_{2}^{4}$ in
- 854 M eitrinella Quel (from its colour, atrus, lemon) a b c P hemispherical, subviscid St pale brown villous at base G adnato-ascending, at first white
 - Gregatious Woods pine, rotten trunks, uncommon Oct $\frac{r}{16} \times \frac{1}{8} \times \frac{1}{3}$ in The var candida Gill is at first white, sulphur in diging

- 355 M plicatocrenata Gill (from the folded and margin-notched pileus, plica, a fold, crena, a notch) a
 - P conic, subumbonate, white then light yellow St pale pallidreddish G adnato-ascending, white
 - Amongst heath and moss, under larches Oct \$ X 12 X 12 In
- 356 M rorida Quel (from the dripping jelly of the stem, roridus, dew.) a b c
 - P convex, whitsh-ochre, pale buff, faintly ashy or white St white G arcuato-decurrent, white
 - Taste none, odour somewhat rank, strong Dead sticks, twigs, bramble, rank June-Sept $\frac{1}{2} \times 1_d^2 \times \frac{1}{12}$ in

h Basipedes

- 357 M stylobates Quel (from the shape of the stem, Gr stulos, a pillar, basis, a base) a b c White or faint grey
 R companyable to simple def with purpose above
 - P campanulate, sprinkled with minute hairs St pruinose above G free
 - Dead grass, leaves, rushes, fern stons, twigs, bark, chips, in wet places, uncommon June-Oct $\frac{4}{3} \times 2\frac{1}{3} \times 2\frac{1}{3} \times \frac{1}{3}$ in In infancy the edge of the pileus is attached to the edge of the basal disc and forms a val
- **358** M tenerrima Quel (time rimus, very tender) a b c White P hemispherical, prumose St pubescent below G free
 - Gregarious Mossy bark of trees, willow, dead bramble, fir cones, dead wood, stacks, chips, etc., uncommon Aug-Viar $\frac{1}{16} \times \frac{1}{8} \times \frac{1}{8} \times \frac{1}{16}$ in Edge of pileus and disc as an 357
- 359 M discopus Gill (from the basal disc of the stem, Gr diskos, a disc, pous, a foot) a b White
 - P conical, subumbonate, pulverulen* G adnate
- Twigs, acoms, dead wood, etc., in moist places Autumr $I_6 \times \frac{1}{2} \times \frac{1}{3} \times \frac{1}{3}$ in 360 M saccharifera Gill (from its sugary appearance under a lens,
- saccharon, sugar, fore, to bear) a b c Whitish
 P hemispherical, covered with minute subglobose granules G
 - Subdecurrent

 Dead bramble, rose turze nettle $\setminus v_1 V_2 V_3 V_4 V_4$
- electica Mass the P is sukate and G adnate

 361 M pterigena Quel (from its habitat pteris, a fern, gizna, to
 - bear) a b c

 P hemispherico-oblong, pale rose with orange marg St paler
 - than P G adnate, pall I with bright orange edge
 - Gregarious, sometimes fasciculate D.ad *Lastrea*, veins of dead leaves, etc., uncommon Sept.-Nov. $\frac{1}{18} \times 1\frac{1}{4} \times \frac{1}{3}$ in

1 Insititiæ

- 362 M corticola Quel (from its habitat, cortex, bark, colo, to inhabit) a b c
 - P hemispherical, depressed, brownish, varying grey St slightly furfuraceous, paler than P G sinuate, colour as St
 - Amongst moss, on living ash, bramble, oak, willow, apple, pear , common. June-Jan $\frac{1}{16} \times 1\frac{1}{4} \times \frac{1}{12}$ in

363 M hiemalis Quel (from its time of growth, hiems, winter) a c Whitish or flesh-colour, rarely brownish or slate

P hemispherical St slightly downy below G adnato-ascending, narrow

Scattered Trunks, oak, willow, rue Sept -Mu \$ x 11 x 15 in

364 M setosa Gill (from the hairy stem *seta*, a bristle) *a b* White, becoming brownish

P hemispherical G adnate

Denselv greganous Dead beech leaves rare Oct Nov $\frac{1}{17} \times \frac{3}{4} \times \frac{1}{12} = 10$ 365 M capillaris Quel (from the hair-like stem capillus, a hair)

a b c White

P plane, slightly depressed St smooth, attenuate downwards G adnato-decurrent

Woods, on herbaceous stems, moss and dead leaves chiefly beech, oak Sept -Nov $\frac{1}{17} \times \frac{3}{4} \times \frac{1}{15} = 10$. Chiefly seen in very rainy weather

366 M juncicola Gill (from its habitat juncus, a rush, colo, to inhabit) a

P acutely conic, rose-colour rufescent, blood red or tawny 57 brownish G adnate, white or pale yellowish

Kushes in bogs, twigs, rare lune-July $\frac{1}{17} \times \frac{1}{8} \times \frac{1}{1-8}$ in

A OMPHALIA Quel

(From the umbilicus Gr emphales)

I'vil almost obsolete, only seen in pruing squamules or toinentum of the pileus and stem, and raicly in a basal disc to which the edge

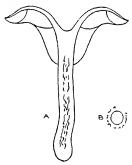


Fig. 19—1 section of Omphalia muralis Quel \times_3 is O pseudodirecta W (\sim m young state seen from above to show volva like base

of the pileus is attached in infancy. Hymenophere confluent with, but heterogeneous from the cartilaginous stein. Puens somewhat

membranous, umbilico-infundibuliform, hygrophanous Stem simple, central, cartilaginous, fistulose or stuffed, more or less lustrous, sometimes hair-like Gills decurrent Sporis more or less elliptical, smooth (Fig. 10)

Many of the species are small, beautiful and generally epiphytal Odour obsolete or nearly so. Mostly peculiar to hilly positions, preferring damp, woody situations and rainy seasons

The species must not be confounded with the thick-gilled species of similar structure found amongst the *Canthardli*

Species 367-406

COLLYBIARIE (from the resemblance to Collybia) Pileus with a deflexed margin

- a Hydrogramme Comparatively large Gills narrow, very crowded arcuate, from the first truly decurrent 367–370
- b Pyxidata Intermediate in size Gills narrow, slightly distant, attenuate at both ends 371-382
- c Umbelliferæ Gills broad, commonly thick, very distant
 Must not be confounded with Xeretus

 383-392

MYCFN MIE (from the resemblance to Micena) Pileus at first companulate, margin straight, pressed to the stem

d Campanellæ Gills broad, perfect, unequal

393–403

i Integrellie Gills fold-like, narrow

404-406

COLLY PIARI L

a Hydrogrammæ

367 0 hydrogramma Quel (from its waters streakings, Gr hudor, water, gramme, a line) a b

P subconvex, striate broadly umbilicate, tan St subattenuate and villous below, tan G livid whitish or tan

Somewhat crespitose. In woods amongst dead leaves, beech. Oct $2\frac{6}{3} \times 3\frac{3}{8} \times \frac{1}{4}$ in Resembles 172 in appearance

367a 0 detrusa Gill (from the umbilicus—as if pushed in Attiudo, to push down) a b

P somewhat fleshy, convex, expanded, at length umbilicate, even, glabrous, indistrictly roned, dark grey or whitish-umber St stuffed to hollow, glabrous, dark grey or dull lavender G subdecurrent with a tooth, thin, crowded, whitish or somewhat pale ochreous

Woods, amongst moss 1 utumn $1\frac{7}{8} \times 2\frac{1}{4} \times \frac{3}{16}$ in

368 0 umbilicata Gill (from the umbilicate pileus) a

P plane, deeply umbilicate, tan to fuscous St silky striate above, villous below, whitish-buff G whitish

Somewhat cæspitose Woods, chiefly pine, amongst moss Autumn

13 × 12 × 15 m

- 869 0 maura Gill (from its swarthy appearance, maurus, a Moor)
 a b
- P plane, striate, deeply umbilicate, sooty-brown St sometimes rooting, livid to dark brown G white
 - Odour of new meal Lawns and moist places Oct -Nov $I_4^2 \times I_2^1 \times I_3^1$ in Must not be confounded with 277
- 870 0 offuciata Gill (from its appearance , offucia, paint) a b
 - P decply depressed, rarely plane, with a small papilla, tan to brownish or flesh-colour St colour as P, brown within at base G colour as P
 - Solitary or slightly fisciculate Under beeches Oct Nov $1\frac{1}{8} \times 1\frac{1}{8} \times \frac{1}{8}$ in The salmon colour of the gills must not eaust this to be confounded with Series II Hyporhodu

b Praidata

- 371 0 chrysophylla Gill (from the golden-yellow gills, (ir chrusos, gold, phullon, a lenf) a b
 - P plane, broadly umbilicate, ochreous-rufescent, tan or greyhoary when dry St colour as G
 - Gregarious Decayed pine, stumps, chips, sawdust Aug -Oct 2\frac{1}{4} \times 2 \times \frac{3}{6} \times 1 he colour of gills and stem must not cause this to be confounded with Flammula
- 372 0 Postn Karst (after H von Post) a b
 - P plane, broadly umbilicate, strinte, bright orange or infescent St light yellow to whitish G whitish to grev-white
 - Charcoal bids, swampy places July-Oit $2\frac{1}{k} \times 2\frac{1}{k} \times \frac{1}{k}$ in 1 he var aurea Mass–bight golden yillow, amongst Sphagnum in swamps
- 373 0 pyxidata Quel (from the shape of the pileus p_1xi), a small box) a b c
 - P infundibuliform, striate, rufous-fuscous to umber or pallid St colour as P G white to brown Flish pale brown
 - Lawns and woods amongst grass and moss, frequent July-Nov $1\frac{1}{2} \times 1\frac{1}{8} \times \frac{1}{8}$ in Sometimes $\frac{1}{8} \times \frac{1}{4}$ in
- 374 0 leucophylla Gill (from the white gills, Gr kukos, white, phullon, a leaf) a b ε
 - P plane, broadly depressed, at length subrimose, dark ashy to pale or dark umber. St colour as P, usually white at top and bottom
 - Taste insipid, odour somewhat strong Woods, morst places, amongst short grass April-Sept 18 × 14 × ½ in
- 375 0 striæpileus Gill (from the striate pilcus) a b c
 - P plane, depressed, rarely with a small papilla, livid olivaceous or brownish, mid brown St pale livid umber, becoming fuscous G whitish
 - Woods, amongst moss and grass Oct-Nov 18 × 12 × 11 in

- 876 0 telmatiæa Sacc (from its habitat, Gr telmatiaios, occurring in marshy places) a b
 - P infundibuliform, minutely virgate, dark brown or fuscous to livid St slate or tan flesh-colour G livid or pale brown
 - On Sphagnum Aug $2\frac{n}{8} \times 1\frac{1}{2} \times \frac{1}{4}$ in (Agaricus affricatus B & Br, not l r)
- 376a 0 epichysium Quél (from a fancied resemblance to an ancient Greek wine-vessel, epichusis)
 - P membranous, plane, umbilicate, livid umber, pale livid-reddishumber, or mid slate-lavender and marg dull salmon, silky floccoso-squamose and pallid when dry, marg striate when moist St somewhat hollow, glabrous, ashy, grey or slate, dull salmon above and below G plano-decurrent, ashy or salmon-brown-white
 - On wet rotten wood, rarely in bogs. Autumn $1\frac{1}{8} \times 1\frac{7}{4} \times \frac{1}{10}$ in Wholly soft and waters
- 377 0 sphagnicola Karst (from its habitat, sphagnum, bog-moss, colo, to inhabit) a b c
 - P infundibuliform, substriate, brownish-tan or dull pale ochreous St tan-white or ashy G thick, colour as P or whitish
 - In swamps, on Sphagnum acutifolium, uncommon June-Sept $I_{\frac{1}{2}} \times I_{\frac{1}{2}}$ in
- 378 0 philonotis Quel (Gr philos, loving, notis, moisture) a smoky-ashy or brown-white
 - P infundibuliform, fragile St floccose at base
 - (In Sphaznum, swampy places in fir woods \ug 1\frac{1}{4} \times 2\frac{4}{5} \times \frac{1}{5} in Fries says this is one of the vernal species, vith 377 and 380
- 379 0 onisea Gill (from its colour, like a codfish, Gr omskos) a b c
 Dark ashy to pale umber, becoming grev-hoary
 - P broadly umbilicate, striate G shortly decurrent

Not exespitose Woods, swampy places, rare Dec $1\frac{1}{8} \times \frac{7}{8} \times \frac{1}{8}$ in

- 379a 0 Luffli Mass (after Mr John Luff)
 - P convex, undulate, then depressed, even, glabrous, marg usually upturned at extreme edge, pallid, white when div St solid, thickened above, cartilaginous, often crooled, glabrous, polished, pallid G decurrent, crowded, colour as St Flish very thin, white
 - Gregarious Odour fragrant, spict, like 219 $1\frac{1}{4} \times \frac{1}{4} \times \frac{1}{12}$ in Alhed to 379
- 380 0 eæspitosa Sacc (from its cæspitose hal it) a b c
 - P hygrophanous, plano-depressed, livid buff, vellowish-white or olive-shaded, at length white, marg crenate, sulcate St slightly enlarged below, colour as P G very distant, sometimes branched, whitish or yellowish-buff
 - Moors, by boggy water courses under β ines, damp peaty soil May-Oct $\mathbf{1}_{\frac{1}{4}} \times \mathbf{1} \times \frac{1}{8}$ in Whole plant sometimes becomes bright yellow in drying

- 381 0 glaucophylla Gill (from the olive-grey gills, Gr glaukos, the bluish-grey of the olive, pluillon, a leaf) a c
 - P plano-umbilicate, mouse-colour marg striate St colour as P
 - Woods, mossy places Sept $\frac{1}{2} \times \frac{5}{8} \times \frac{1}{17}$ in Pileus sometimes $\frac{7}{8}$ in in diameter
- 882 0 rustica Quel (from its habitat rus the country) a h
 P plano-umbilicate, fuscous to grey, or whitish-umber, shaded lavender, marg striate St colour as P, or dull rather pale lavender G thick, olivaceous or olive-grey
 - Woods, grassy avenues, heathy ground, charcoal heaps. Aug-Sept $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{16}$ in
- 382a O alutaeea Sacc (from its colour, aluta, tanned leather) a b
 Tan colour, or dull pale ochreous
 - P membranous, convex, then umbilicate, smooth, margincurved, even St hollow, smooth, paler than P G somewhat narrow, crowded, arcuate, colour as St

Amongst grass and moss Sept 3 × 13 × 13 in

c Umbellifina

- 383 0 demissa Karst (demissus drooping) a b
 - P infundibuliform, fuscous-rufescent to tan brown St liverrufescent to pale tan-brown G becoming purple
 - Waste places, bunks in woods, burnt wood , rare $-\log \cot \xi \times \frac{1}{2} \times \frac{1}{1}$ in Agaricus rufulus 1. & Bi Not unlike some forms of 224
- **384 0 hepatica** Gill (from its coloui Gr *lupar*, the liver) a b c

 P infundibuliform, tough, rufous flesh-colour to tawny and tan

 St fuscous flesh-colour G whitish
 - Lawns, mossy pathsides in woods, etc., rare Nov.-Dec. 1 $\frac{1}{4} \times 1\frac{7}{8} \times \frac{1}{6}$ in Often in company with 373
- 385 0 muralis Quel (from one of its habitats murus, a wall) a b c

 P infundibuliform, rufous-brown to tan-umber marg striate

 St paler than P G brownish-white
 - Old mossy walls, amongst moss in woods, on turf walls, sinch bruks, etc Jan-Nov 17 $\cdot \frac{1}{8} \times \frac{1}{8}$ in There is a white var Several other species of Omphaha occur on old mossy walls
- 386 0 umbellifera Quél (from the umbrella-like pileus, umbella, an umbel or umbrella, fero, to bear) a b c
 - P plano-depressed, deep brown to ochreous-whitish maig striate St slightly attenuate downwards, colour as P G grey-whitish, umber or dusky flesh-colour, edge whitish
 - Taste none, odour at first somewhat disagreeable, evanescent Boggy ground, stumps, rotten wood, old walls, heathy banks, etc. Mar –Dec $\frac{2}{3} \times \frac{1}{3} \times$

386a O velutina Quél (velutinus, velvety) a

P convex, umbilicate, striate, greyish or yellowish-grey St solid, colour as P, white at base G arcuate, wide, distant, colour as P Flish dark grey

In heaths Sept 1 × 18 × 14 in Has characters between 386 and 391

387 0 infumata Sacc (from its colour infumo, to smoke) a b P obtuse, at first green St dilated at base, tomentose, yellow G yellow

Moss on bark Autumn 5 × 13 × 1 in Colours of 350

888 0 retosta Gill (from its appearance, retostus, scorched) a c Umber within and without

P plano-depressed St equal or attenuate below G somewhat darker than flesh

Lawns, etc., amongst dead leaves — Oct — $1\frac{1}{8} \times 1 \times \frac{1}{8}$ in — Firmer than 386

389 O abhorrens Sacc (from its fetid odour) a

P plano-depressed, fuscous to warm ochreous St brown-ochre above, dark brown below G colour as P

Crespitose Odour dung like On lawns, under yews Oct $\frac{1}{2} \times \frac{3}{4} \times \frac{1}{32}$ in A close ally of 388, much like 1411

890 0 pseudoandrosaeea Gill (from its resemblance to 1420 Marasmus androsaeus Fr, Gr pseudos, filse) a c White, whitish-grey, or umber-white

P plano-depressed, marg striato-plicate, crenulate Mossy lawns Oct-Nov 2 × 12 × 12 in

391 O griseopallida Quel (from its colour, griseus, grey, fallidus, pallid) a b c

P infundibuliform, squamulose, fuscous grev or pale greyishumber, marg sometimes slightly striute St paler than P G fuscous- or slate-grey

On the ground, gardens Sept -Oct $\frac{7}{8} \times 2 \times \frac{1}{5}$ in

392 0 stellata Quel (from the star-like, radiite base) *a b c* White *P* plano-depressed, draphanous-strate.

In woods, on sticks, decayed stems of herbiccous plints, wood , uncommon Feb-Nov $\frac{f}{f_0} \times 1 \times \frac{1}{g_0^2}$ in Must not be confounded with the basipedes section of M_1eena

MYCENARIF

d Campanellæ

- 393 0 campanella Quel (from the shape of the pileus, campanella, a little bell) a b c
 - P campanulato-plane, umbilicate, yellow-ferruginous, orange or brown St brown, usually dark strigose at base G dull ochre
 - Cæspitose Woods, pine, trunks $\log \log \frac{1}{4} \times 1\frac{1}{2} \times \frac{1}{16}$ in Sometimes completely covering stumps There is a var with a small acute papilla in the umbilicus

- 894. 0 pieta Gill (from its varied colours, pictus, painted) a
 - P hood-shaped, subdepressed, fuscous, marg striate, mid yellow or brown St horny, brown, blackish at strigose base G adnate, broader than long, subdecurrent, whitish cryellowish
 - Woods, mixed, on sticks, chips, dead wood, sawdust, etc. Aug -Oct $\frac{8}{8} \times 1\frac{1}{4} \times \frac{1}{15}$ in
- **395 0 eamptophylla** Sacc (from the curved gills, G1 *kampto*, to curve, *phullon*, a leaf) *a b*
 - P convevo-depressed, brown or brown-white marg striate, grey St yellow to white above, rufescent to pale brown below G adnate, subdecurrent, white

Sticks, chips, etc., rare Aug -Oct 1 x 2 x 3 in

- **396 0 umbratilis** Gill (from its growing in the shade *umbratilis*, remaining in shade) *a c*
 - P convexo-plane, broadly depressed black-fuscous, hoary when dry St fuscous-dead-black G adnato-decurrent, becoming fuscous-white

Gregarious Amongst grass Autumn \$\frac{7}{8} \times \frac{7}{8} \times \frac{7}{10} in

397 O grisea Quel (griseus, gics) a b c

P conico-campinulite, subumborate, then expinded and umbilicate, hird grev to umber, becoming hoary St attenuate downwards, longitudinally cracking, ashy whitish G sinuato-decurrent, whitish-grey, dull lavender with a white edge or livid umber

laste and odour somewhat uppleasant. Woods, pine, mixed, dead sticks, leaves, rare. Sept.-Nov. \$\frac{1}{2} \times 1\frac{1}{4} \times 1\frac{1}{4

398 0 fibula Quel (from its shape jibula, a pin) a b c

P plano-depressed sometimes pipillate, orange yellow or vermilion St colour as P G decurrent, yellow or orange Flesh orange

Moss ground, shady banks, most woods, moss, sedge \$1785, s'umps, etc Mar -Dec \(\frac{1}{2}\times 1\)/2 \(\frac{1}{2}\times 1\)/2 in \(\text{Var Sconten Kaist } I\) tan or white purple, and deep purple brown \(\text{The variation from orange to purple a_rees with } \)

224 and its purple from \(\text{There is a white variety} \)

- 399 O directa Sacc (from the long hairs at right angles to the stem, directus, straight) a c White
 - P plano-depressed M sometimes funtly rufous G subdistant, decurrent

Dead leaves May-Nov $\frac{1}{1!} \times \frac{1}{4} \times \frac{1}{1-8}$ in

- 400 O PSEUDODIKICIA W (r Sm (from its being mistaken by Dr M C Cooke for 399, (rr pseudos, false) α b
 - P plano-depressed, white-pruinose St white, meals granular below, springing from a white floccose disc or volva which becomes obsolete as the stem lengthens G few, adnate, white then saffron, pruinoso-sparkling
 - On Encephalartos cone at Messrs Venteles nursery, Chelsea May $\frac{1}{16} \times \frac{1}{2} \times \frac{1}{12} g$ in Stems bristle like, often non pileate

401 0 Belliæ Karst (after the Misses Bell of Coldstream) a b P infundibuliform, pale livid brown, marg waved and furrowed S/ whitish above, pale brown below, springing from a slightly enlarged, floccose base G wrinkled, veined, white

Dead reeds Oct 1 × 11 × 16 in

401a 0 gracilis Quel (gracilis, slender) a Wholly white

P membranous, campanulate, papillite, striate, smooth, transparent St filiform, fistulose, transparent, pruinose, fibrillose at base G distant, very decurrent, thin

Dead grass Oct 1 × 12 × 30 in

402 0 gracillima Quel (gracillimus, very slender) a b White P convex, subumbonate then plane and umbilicate St springing from a floccose base G fold-like, disappearing short of marg of P

Scattered Dead sticks, herbiceous stems Aug $\frac{5}{15} \times 1 \times \frac{1}{3}$ in

403 0 bullula Sacc (from its watery appearance, bullula, a watery vesicle) a White

P hemispherical, diaphanous

Scattered Dead sticks, twigs Autumn $\frac{1}{4} \times \frac{5}{8} \times \frac{1}{32}$ in

e Integrellæ

- **404 0 integrella** Quel (from its perfect structure *integri*, whole) a b c White
 - P hemispherical, depressed or plane ST pilose downwards to a minute villous disc at base G adnato decurrent disappearing short of marg of P

Commonly fasciculate Shrdy places, woods on decayed sticks, rotten wood, grass, twigs, etc. Max-Oct $\frac{1}{18} \times \frac{7}{6} \times \frac{4}{42}$ in

- 405 0 buceinalis Sacc (from its trumpet-shaped pileus, buccina, a trumpet) α White
 - P fleshy, plano-depressed St with a stellate disc at base G vein-like as in Cantharellus
 - Twigs, stems, etc., common $\frac{1}{4} \times \frac{5}{3} \times \frac{1}{3^2}$ in Sometimes branching as in 1437 on a small scale
- 406 O NEVILLÆ Sacc (after Lady Dorothy Neville) a
 - P homispherico-depressed, granulite, striate, by which black gr, villous, subdilated at base G veined at sides and interstices On Sphagnum in orchid pot $\frac{1}{2} \times 1 \times \frac{1}{16}$ in

XI PLEUROTUS Ouel

(From a fancied resemblance in many of the species to an ear, Gr phuron, a side, ous, an ear)

Veil universal, seen in the squamules, scurf and appendiculate margin of the pileus and in the fugitive annulus, sometimes developed

as gluten, or obsolete or nearly so *Hymenophore* confluent and homogeneous with the fleshy stem, when present *Pulcus* usually excentric, compact, spongy to fleshy or membranous, sometimes resupinate *Stem* usually excentric, lateral, annulate, simple **cr**

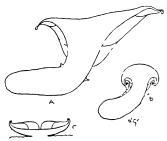


Fig 20—A section of Hunretus entimes Quel One third natural size B young state section showing veil c section of Happle atus Quel X 2

none when present without cartilaginous bark when the largerstemmed species grow vertically on prostrate trunks, the stem is sometimes central or nearly so *Gills* sinuate, adnate or decurrent, in some of the *Resipinatie* often starting from an excentric point. *Spores* more or less elliptical, smooth (Fig 20)

The majority of the species grow on trunks, branches, twigs, moss, etc, a few are terrestrial, many are large, handsome and polymorphic some are small and resupinate. They generally appear late in the year, 421 and 422 commonly grow in the spring and reappear year after year on the same habitat and a few are considered by some to be edible. All become putrid when old, and none are leathery or woody—in this they differ from members of Lentinus, Panus, Xerotus, Inoga, Schizophyllum and Lenzites.

a Excentrice Pileus laterally extended stem excentric
Visit forming an annulus to the stem and hanging as a ragged
fringe at the margin of the pileus
Visit obsolete Gills sinuate or obtusely admate
Val obsolete Stem distinct, somewhat vertical decurrent
Visit obsolete Pileus lateral, sessile or extended behind into
a short, oblique, stem-like base Gills deeply decurrent
421—425

b Dimidiatæ Pileus definitely lateral, immarginate behind, not at first resupinate 426—435 c Resupinate Pileus at length reflexed, sessile Gills starting from an excentric point

Pileus fleshy, uniform 436, 437

Pulcus fleshy, striate, with an upper gelatinous stratum or viscid pellicle 438—444

Pilcus membranous, not viscid 445 448

a Excentruæ

- 407 P corticatus Quel (from the thick covering of the pileus and stem cortia, bark) a b
 - P fleshy, floccose, pale buff and grey St squamuloso-fibrillose white to pale buff A silky-floccose G decurrent, anasto mosing near St, yellowish when old Flesh white or faintly yellowish
 - Solitury or crespitose Clm, ash, apple, ctc Sept -Oct 9 x 3½ x 13 in Trunks,
- 408 P drynnus Quel (from its frequent habitat, Gr drw, oak) a be P fleshy, plane, whitish with fuscous sc, mid driker St white or yellowish-white, fuscous at base A floccose G decurrent, white, yellowish when old
 - laste pleasant, mushroom like 1 runks, oak, elm, apple willow, walnut, ash, poplar Sept Feb $6\times4\times1\frac{1}{5}$ in
- 409 P spongiosus Sacc (from its spongy substance) a b c
 - P pulvinate, subumbonate, downs, white, tan or ash. St white-tomentose, sometimes almost obsolete A evanescent G decurrent, anastomosing on stem, whitish
 - Stumps, beech, apple poplar, hornbeam, rare Oct –Nov. $3\frac{1}{2} \times 1\frac{1}{4} \times \frac{5}{8}$ in Soft and spongs, shrinking to almost half its original size in drying
- 410 P ulmarius Quel (from its usual habitat ulmus, elm) a b c Whitish
 - P pulvinate, broadly umbonate, smooth St villous at base, rarely central G adnate
 - Solitary or exputose Said to be edible. Odour mealy or slightly acid Trinks, elm, wich elm, beeth, oak, poplar, willow sometimes parastic on 1587. Sept—Dec. 6½ × 4 × 1½ in Sometimes proliferous, with miny small growths at base of sten.
- 411 P tessulatus Gill (from the tesselated markings of the pileus) a P convex, subumbonate, pale tawny, brown-tesselated St smooth, white G si unite, white or faintly brownish
 - Solitary or crespitose Odour of new meal Trunks $4\frac{1}{4} \times 2 \times \frac{1}{6}$ in
- 412 P subpalmatus Gill (from a fancied resemblance to the shape of the hand) a b c
 - P convex, with a thick, gelatinous, reticulato-corrugate pellicle, rufescent-salmon St whitish above salmon below G sinuate with a decurrent tooth or adnato-rounded, sometimes adnate with a collar, paler than P Hesh salmon-streaky
 - Taste bitter aromatic squared timber, trunks, etc., willow, elm, oak, rare Sept -Nov $4\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ in

- 413 P eraspedius Gill (from the thick stem, crassus, thick, pes, a foot) a b
 - P pulvinate or subumbonate, pale buff, marg crenato-lobed St and Flish white G rounded or adnate
 - Cespitose Strong odour of cucumber Trunks, rotten wood, poplar Sept -Oct 48 × 2 × 18 in
- 414 P fimbriatus Gill (from the fringed margin of pileus, fimbria, fringe) a
 - P infundibuliform, hygrophanous, whitish, marg lobed and reflexed St central or lateral, somewhat attenuate downwards, whitish G adnato-ascending, narrow, thin, crowded, white Flish remarkably thin
 - Gregarious, somewhat exspitose Trunks, dead, rare Aug Jan 48 X 18 X 1 in Habit not unlike Lentinus
- 415 P Ruthæ Sacc (after Ruth Berkeley) a
 - P plano-depressed, fan-shaped, tan-whitish marg striate St lateral of excentric, salmon-reddish G admito-decurrent, veined, paler than St
 - Sawdust Oct 23 x 8 x 1 in Sometimes twisted and contorted like 1158, for the white variety of which with similar habitat it might be readily mistaken
- 416 P lignatilis Gill (from its habitat and hardness, lignum, wood) a b c Whitish-tan
 - P conveyo-plane, slightly depressed, flocculoso-prumate, mid pale buff St stuffed woody, prumato-villous G adnate or sinuate Flish whitish, frintly sienn at base of stem
 - Cæspitose or single Odour strong of meal Beech, growing on 1532 and 1593 3 × 21 × ½ m A variety has P ashy with mid black and marg white
- 417 P circinatus Gill (from the orbicular pileus, circino, to make round) a b c White
 - P plane, silky-lustrous St smooth, attenuate downwards Gsubdecurrent
 - Odour weak and pleasant, not mealy Rotting stumps, birch Sept -Oct 28 × 14 × 15 10
- 418 P sapidus Sacc (from its taste sapidus, savoury) a b c
 - P plano-depressed, fleshy, smooth, white, pale ochreous, brown or lavender shaded St connato-branched, smooth, white G subdistant, reticulate on stem, white Spores pale lilac Cæspitose Trunks, elm July-Aug 41 x 21 x 2 in
- 419 P pantoleucus Gill (from its colour, (ir pas, all, leukos, white) abc
 - P convex, dimidiate, spathulate, smooth St excentric Gbroad
 - Solitary Trunks, branches, willow Oct 41×21×8 in Sometimes small with a depressed pileus

- 420 P mutilus Gill (from its being changeable in form, mutilus, maimed) a c White
 - P excentric, lateral, reniform or spathulate, depressed, silky-smooth St excentric or lateral with a villous base
 - Dead wood, rotting elm, fir plantations, on a grassy hillside $\log 18 \times \frac{7}{6} \times \frac{1}{8}$ in Might be mistiken for a small Clitocybe Sometimes appears on mushroom b.ds
- 421 P ostreatus Quel (from the shape and colour of the pileus, ostrea, an oyster) a b c
 - P convexo-depressed, subexcentric, slate or brownish, when young sometimes almost black St connato-branched, excentric, rarely central, sometimes obsolete, white G reticulate below, whitish
 - Crespitose imbriente Suid to be edible. Odour strong Frunks and logs, elin, poplar, walnut, beech, laburnum apple, Wrietaria once on dry cerebral matter in skull of a stranded whale. Jan -Dec. 4\frac{8}{8} \times 2 \times \frac{2}{8} \times 1 \times 1 \times 2 \times \frac{2}{8} \times 1 \t
- 422 P euosmus Sacc (Gr euosmus, sweet-smelling) a b c
 - P convexo-depressed, tan to ohvaceous-brown St varying long, short or obsolete G reticulate below Spores tan, hilac or salmon-shaded
 - Cx-pitose imbricate Said to be poisonous Odour of tariagon Stumps, \log_{x} , poplar elm Vpril-Oct $5\frac{1}{4} \times 3\frac{1}{4} \times 1$ in Intermediate forms between this and 421 occur
- 423 P revolutus Gill (from the ultimately revolute margin of the pileus) α
 - P plane, smoky, lead- or mouse-colour, mid darker St whitish G serrulate, whitish
- Solitary or subcrespitose Trunks, poplar, beech Autumn $10^{1} \times 2^{\frac{1}{4}} \times 2$ in 424 P salignus Quel (from one of its habitats, Salix willow) a b c
- P pulvinate, plane, ochreous, smoky slate-colour or almost black
 St almost obsolete, tan Specis dull whitish
 - Solitary, rarely cuspitose or imbricate Trunks, willow ash, elm, sycamore, alder Sept-Feb $5\frac{1}{2} \times \frac{1}{2} \times 1\frac{3}{4}$ in
- 425 P acerinus Gill (from one of its habitats $A\alpha r$ maple) $a\ b$ White
 - P tough, fleshy, thin, silky-villous, pale rufous when dry St sublateral or obsolcte, villous G very crowded, thin, white then yellow, livid-vinous when dry
 - Trunks, maple, ash, plane Autumn 3 x 11 x 1 in

b Dimidiatæ

- 426 P petaloides Quél (from a fancied resemblance to a leaf, Gr petalon, a leaf, erdos, appearance) a b c
 - P plane, subumbonate, fuscous, brown, ochreous or purplish St sublateral, villous, whitish G decurrent, white, yellowish or ashy
 - Gregarious, crespitose or imbricate Taste bitter Terrestrial and on stumps, pine, rare Aug -Jan 3\frac{3}{4} \times 1 \times 1 in

- 427 P pulmonarius Quél (from its lung-like texture, pulmo, a lung) a c
 - P plane, smooth, ashy or rufous St lateral, whitish G decurrent or adnato-decurrent, whitish or ashy
 - Solitary, rarely crespitose l runks, beech Sept $2\frac{\pi}{2} \times \frac{\pi}{4} \times \frac{\pi}{4}$ in Var Juglanais Karst grows on walnut
- 428 P serotinus Gill (from its late appearance sevenius, late) a b c
 P reinform, olivaceous St lateral, brilliant deep yellow,
 squamulose, spotted near gills, somewhat rich brown G
 crowded, sinuato-decurient, cream ochre to bright yellow or
 orange
 - Taste insipid, odour apple like Trunks, posts, ash birch, hornbeam, alder, beech, rails Oct-Dec 2 × 3 × ½ in
- 429 P mitis Quel (from its taste mitis, mild) a b c
 - P reniform, gristly, without a viscid pellicle, pale flesh colour or tan St lateral, minutely scaly, whitish flesh-colour or tan G somewhat rounded, white
 - Taste and odour almost obsolete. Dead trunks stiels fir, larch the Dec $\frac{7}{8} \times \frac{1}{8} \times \frac{1}{8}$ in Sometimes $1\frac{1}{7}$ in in diam. Somewhat like 1444 in general appearance.
- 429a P rufipes Sacc & D Sacc (from the reddish stem, 111fus, red fex, a foot) a b
 - P dimidiate or reinform, convex, membranous very glutinous when moist white mid salmon, marg incurved SP becoming recurved, vinous-reddish, salmon-red within, white in centre, base white-down G adnate, broad, distant, white, interstices pale salmon
 - On wood Autumn 1 x 12 x 14 in
- **430** P GADINIOIDI'S Sacc (from its resemblance to the bivalve *Gadinia*, Gr eidos, appearance) a b c White
 - P convex, hygrophanous, smooth or clothed with adpressed flocei, no gelatinous upper stratum St minute, literal or none G adnate, slightly branched
 - Tree fern stems May Diam # in Keinform as seen from below
- 431 P limpidus Gill (from its pellucid substance limpidus, clear)
 a b c
 - P reniform, plane, subumbonate, whitish St sublateral, rudimentary or obsolete G sinuato-decurrent, white or strawwhitish
 - Taste mild Stumps, ash, willow, beech Dec Diani 11 in
- **432** P reniformis Karst (from the kidney-shaped pileus, renis, a kidney, for ma, form) a
 - P plane, whitish, or greyish-brown $\quad \mathcal{S} I \quad \text{lateral, rudimentary} \quad G \quad \text{sinuato-decurrent, paler than P} \quad$

- 483 P Laurocerasi Sacc (from its habitat, stems of cherry-laurel, Prunus Laurocerasus) a b
 - P convex, oyster-shaped, sulcate, pale brownish-salmon Si obsolete G very broad, adnate, veined, salmon-white
- 434 P tremulus Quél (from its tremulous habit) a b c
 - P remform, depressed behind, fuscous-grey, pale slate or brown St attenuate downwards, grey G adnato-decurrent, whitishumber or greyish
 - Solitary On the ground, on moss, fungi, e.g. 1790, when growing on moss, rare Aug-Dec $1\frac{1}{4} \times \frac{1}{15} \times \frac{1}{4}$ in
- 435 P acerosus Quél (from its habitat, amongst dead pine-leaves, accrsosus, full of chaff or husk) α b c
 - P plane, runform, membranous, whitish, brownish or greyish
 St faintly umber-whitish G adnate, branched, colour as P
 or paler
 - Taste insipid, somewhat disagreeable Lawns, wood, gravel, leaves, pine wood, pine leaves, Sp/a_Snum rare Aug Dec $r_S^2 \times \frac{1}{4} \times \frac{1}{8}$ in Resembles 1388

c Resupinata

- 436 P porrigens Gill (from its stretched out habit, forrigo, to stretch out) a b c White
 - P at length plano-depressed, undulate G thick, sometimes forming pores Flish thin, subcartilinguous
 - Imbricate Odour pleasant or insipid Stumps, chiefly pine June-Nov Diam 61 in Bise villous
- 437 P septicus Quel (from its habitat, rotten wood, septicus, putrifying) a b c White
 - P convex, villous St literal, villous, at length disappearing G rounded-adnate, subdistant
 - Decayed wood, branches, twices, pine, brumble, straw, dung, fungi Mar Nov $\frac{3}{8} \times \frac{1}{10} \times \frac{1}{17}$ in
- 438 P mastrucatus Sacc (from its somewhat woolly coat, mastruca, a sheepskin) a b c
 - P ear-shaped, plane, squarrosc-scaly, greyish- or whitish-brown G adnato-decurrent F//t/s/t mouse-colour
 - Imbricate Old trunks, logs, beech, amongst moss and lichens, rare Diam 3§ in
- 439 P atroeæruleus Gil (from the colour of the pileus, ater, black, cæruleus, azure-blue) a b c
 - P plane, remiform, marg ochreous-sienna G whitish strawcolour Flish with an olive middle stratum
 - Gregarious, subimbricate Odour pleasant Trunks, birch, elm, poplar, beech, etc. Oct.-Dec. Diam 18 in
- 440 P Leightonii Sacc (after the Rev W A Leighton) a b c
 - P at first obliquely conical, furfuraceous, umber or lead-colour G thick, distant, forked at base, pallid tan
 - Wood, rotten rails Dec Diam 1 in Might be mistaken for 444

- 441 P algidus Quél (from its frequent growth in northern countries, algidus, cold) a b c
 - P plane, subteniform, pruinose when young, viscid, brown. G adnate, becoming pallid yellow
 - Usually crespitose and imbricate Trunks, mountain ash, willow Aug Oct Diam 21/8 in
- **442 P fluxilis** Gill (from the gelatinous, upper stratum of the pileus, *fluxilis*, fluid) *a*
 - P plane, remform, umber G adnato-rounded, whitish Flesh a gelatinous stratum without a membrane
 - Solitary Wood, amongst moss on trunks, sawdust, mosses Oct Diam & in Not usually resupinate
- 443 P cyphellæformis Sacc (from its resemblance to a Cyphella)
 - P cup-shaped then conico-dependent, greyish or biownish G radiating from a central point, white Flish, upper stratum dark brown, lower white
 - Gregarious Dead herbaceous stems, Fæniculum, Epilobium rare Feb Oct Diam $\frac{3}{16} \frac{3}{8}$ in
- **P** applicatus Quél (from its close attachment to branches, etc., applicatus, closely attached) a b c
 - P cup-shaped, then expanded or reflexed, dark grey G radiating from a central point, lighter than P
 - Dead branches, twigs, bramble, oak, ash, pine, Ribes, Vitti Sept-June
 Diam & in Sometimes proliferous
- 445 P Hobsonii Sacc (after I jeut Julian C Hobson) a
 - P plano-convex, reniform, downy, pale grey G subdistant, adnate, pallid
 - Stumps, larch Sept Diam g in
- 446 P striatulus Quel (from the slightly striate pilcus) a c
 - P cup-shaped, not usually reflexed, fuscous or grey G few, radiating from a central point, lighter than P
 - Gregarious Stumps, twigs, etc., fir, hazel, elm May-Dec Diam 4 in
- 447 P hypnophilus Sacc (from its frequent habitat, Hypnum, Gr philos, loving) α ε White
 - P at length plane, subremform St villous, at length vanishing G narrow, radiating from a central point
 - On the larger mosses, leaves, leaves and stems of grass Scot -Dec Diam § in Resembles 553 in habit
- 448 P chioneus Gill (from its colour, Gr chion, snow) a b c
 - P subresupinate, convex, villous St lateral, villous, at length vanishing G very distant, broad, radiating from a central point
 - Wood, decorticated elder, leaves, dung, bone , rare Sept –1)ec $\frac{1}{4} \times \frac{1}{4} \times \frac$

SERIES II HYPORHODII Fr

(From the rose-coloured gills, Gr hupo, beneath, rhodon, a rose)

Spores white when young, then pale rose-colour, salmon, yellowish-salmon, salmon-whitish, nankeen, whitish-vinous or salmon-brownish, never lilac, elliptical and smooth or globose or nodulose and angularly warted

There is no analogue of Amamta amongst the British Hyporhodia,

but an analogous genus, Metraria, occurs in Australia

It is remarkable that Sowerby has modelled an example of 450 with an ample annulus, if correct this plant would be a *Metraria*Genera XII-XX,

XII VOLVARIA Quel

(From the volva)

Veil universal, entirely enveloping the young plant Hymenephore distinct from the fleshy stem Sum central, simple, solid, volvate,

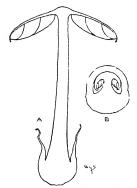


Fig 21—A section of Volvaria vol area Quel one third natu al size B of young plant showing universal veil half natural size

without cartilaginous bark Gills free, at first white, then rose or salmon, sometimes becoming brownish Spores smooth, salmon or cose colour (Fig 21)

All the species are beautiful, some appear in spring and early summer They grow in gardens, hothouses and pastures, and on lung, manured ground and rotten wood, 451 grows on the pileus

of 158 They are almost all tasteless or insipid, 455 is fetid and said by Letellier to be poisonous. None are known to be edible

Volvaria agrees in structure with Amanitopsis, Acetabularia and Chitonia Species 449 457

Pileus dry, silky or fibrillose

449 - 453

Pileus more or less viscid, smooth

454-457

449 V bombycina Quel (from the silky pileus, bombyx, silk) a b c P broadly umbonate, white or pale brownish St colour as P Vo large, lax, ochre-sienna or umber G becoming rufous Solitary or cæspitose Decayed wood, stumps, hollow trees, ash, clm, birch June-Sept δ½ × 7 × ½ in

450 V volvacea Quel (from the large volva) a b c

P campanulate, subumbonate, black-fibrillose on a brown ground or brown-fibrillose on a white ground St white I_{v} large, lax, umber

Gregarious Reputed poisonous Stoves on tan, roadsides $5 \times 7 \times \frac{1}{2}$ in Sowerby has modelled an example of this with a large annulus

451 V Loveiana Gill (after the Rev R Γ Love) α b c

P convex, white-stilky St white Vo lax, whitish S thick Gregarious, subcæspitose On 153 and other species of Clitocibe 2\frac{1}{6} \times 2 \times 2 \times 2

452 V Taylorii Gill (after Michael A Taylor) a b c

P expanded, subumbonate, rimose, whitish, marg faint umber St white I o lax, small, white or umber G sinuato-free, irregular, attenuate near St

Odour none On the ground, gardens July-Oct 23 × 2 × ½ in \ariable in size, sometimes as small as 453 and smaller than 457

453 V TEMPERAIA Sacc (from its growing in temperate greenhouses) a b

P campanulate, umbonate, pulverulent, pale ochreous sienna, marg striate St white Vo ample, faintly ochreous

Greenhouses Feb \$ x \(\frac{1}{8} \times \frac{1}{16} \text{ in

454. V speciosa Gill (speciosus, handsome) a b c

P campanulate, subumbonate, whitish, greyish or brownish, mid darker 5/ attenuate upwards, white Io bulb like, white

Odour strong Roadsides, rubbish heaps, manure heaps, rare June-Oct $4 \times 6\frac{1}{2} \times \frac{1}{2}$ in

455 V gloiocephala Gill (from its glutinous pileus, Gr gloios, sticky, kephale, a head) a b c

P convex, subumbonate, whitish, marg striate, greyish or brownish, mid darker St subfibrillose, pale brownish or tawny W bulb-like, adpressed, brown G serrulate, becoming reddish

Probably poisonous Taske disagreeable, odour strong, offensive, like putrid broad beans. On the ground June-Nov. 43 × 64 × ½ in 1 ragments of \$\ell_0\$ of for left of Left.

456 V media Gill (from its intermediate position between 455 and 457) a b c

P convexo-plane, subumbonate, white, mid pale brownish, marg pale rose St white Vo small, lax, spreading, whitish

Woods, on the ground Aug-Oct 21 × 3 × 1 in

457 V parvula Quel (parvulus, small) a b c Whitish

P convexo-plane, subumbonate Vo large, lax

Gregarious Pastures, gardens, fir woods, dead wood , frequent May-Oct $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$ in A minute form of this occurs in stoves

XIII ANNULARIA Gill

(From the annulate stem)

Veil universal, concrete with the cuticle of the pileus Hymenophore distinct from the fleshy stem Pileus plane or broken up into minute squamules Stem central, annulate, hollow Gulls free (Fig 22)

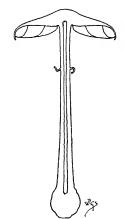


Fig 22 —Section of Annul iria lavis Cill One half natural size

Terrestrial Annularia agrees in structure with Lepiota, Togaria and Psalliota

457a A lævis Gill (from the usually smooth pileus, lævis, smooth) a b

P convex, expanded, obtuse to subumbonate, smooth, glabrous or minutely squamulose, white or pallid St slightly attenuate

upwards, even, smooth, silky, bulbous, colour as P A somewhat distant, large, becoming free G free to distant, thin, somewhat crowded, white, then salmon Flesh somewhat firm white

Bushy places, amongst grass Aug -Oct 31 × 51 × 8 in

XIV PLUTEUS Quel

(From a fancied resemblance in the pileus to the roof of a turret or sentry box, pluteus)

Vetl represented by the fibrils, flock or pruma of the pilcus Hymenophora distinct from the fleshy stem Stam central, simple Gills free, white, then usually salmon, or with a shade of yellow

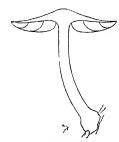


Fig. 23 - Section of I luteus cor inus Quel One third natural size

Spores smooth or warted, pale rose, salmon or somewhat reddish (Fig 23)

Mostly growing on or close to tree-trunks, appearing from the spring to late autumn. They are all beautiful and tasteless, none are edible

Pluteus agrees in structure with Hiatula, Pluteolus and Pilosace

Cuticle of pileus separating into fibrils or flocci

Pileus pruinate, atomate, somewhat pulverulent

Pileus naked, smooth

Species 458-472

458-463

464-467

468-472

458 P eervinus Quel (from the fawn-brown pileus, arrus, a deer) a b c

P expanded, broadly umbonate, marg entire St solid, whitish, black-fibrillose, lighter above I lesh silky-white

 times P 12 in in diam. Var *petasatus* Mass, P greyish white $6 \times 8 \times \frac{3}{4}$ in Var *patricus* Mass, P deep brown $6\frac{1}{2}$ in in diam.

459 P umbrosus Gill (from its habitat, umbrosus, shady) a b

P convex, broadly subumbonate, wrinkled, umber, marg fimbriate with V St solid, villous-scaly, umber-whitish G fuliginous-fimbriate at marg

Dead wood, fir, oak Sept $2\frac{1}{2} \times 2^{\frac{1}{2}} \times 1^{\frac{1}{6}}$ in This has less claim to specific rank than var eximits of 458

460 P ephebius Gill (from the down on the pileus *ephubius*, like a youth) *a b*

P convex, tomentose, pale slate-blue or lilac, sometimes slate St stuffed, whitish or bluish G salmon

Rotten wood, trunl s 28 × 21 × 1 in

461 P salienus Quel (from its usual habitat, willow, Salia) a b P convex, subumbonate, subpilose, pile blue-grey, mid slightly wrinkled St colour as P, or clouded greenish

Willow, bramble, alder 1 eb –Dec $1\frac{3}{4} \times 2\frac{1}{2} \times \frac{1}{4}$ in Var boyllus karst P grunnsh strenked, alder V ar foccosa Sacc, two or three times smaller than 460 to which its illied

- **462** P hispidulus Gill (from the slightly hispid pilcus) $a \ b$ P convex, grey or purplish-grey
 St hollow, silvery-white
 Stumps, beach, earth in hothouses $\frac{5}{8} \times 1^{\frac{1}{2}} \times 1^{\frac{1}{6}}$ in
- **463** P pellitus Quel (from the separable membrane of the pileus, pellitus, clad in skins) a b

P hemispherical, silky-white St stuffed, white

Odour disagrecable — Trunks, earth, rotten branches, twigs, chips, roots of trees, amongst grass in pastures — Iuly-Sept — $I_{\pi} \times I_{\pi}^{d} \times I_{\pi}^{d}$ in

464 P nanus Quel (from its small size nanus dwarf) a b c
P convex, umber or slate-brown mid wrinkled St solid,
whitish

Thatch, rotten wood, rotten studust, earth, sticks, leaves and in gardens Aug-Oct. 1 $\frac{1}{6} \times 2\frac{7}{8} \times \frac{7}{8}$ in Var Intercens Kaist has an orange yellow St, sulphus vellowish flesh and salmon or sulphus (. Var major Mass. is larger than the type

465 P spilopus Sacc (from the spotted stem, G1 spilos, a spot, pous, a foot) a b c

P convex, subumbonate, rugulose, brown St stuffed, tan-white or greyish, black-dotted

Stumps, wood Oct $2\frac{1}{3} \times 1\frac{\pi}{3} \times \frac{1}{4}$ in Sometimes small, $\frac{\pi}{6} \times 1$ in or less

466 P semibulbosus Gill (from the slightly enlarged base of stem) $a \ b$

P hemispherical, sulcate, meal), white St hollow, white, base sienna and white cottony G distant, marg entire Wood, branches, rotten wood $\{x \in X \mid x \in X\}$ in

- 467 P violarius Sacc (from its bright violet exudation) a b
 - P expanded, smooth, even, spongy, dry, purple, crimson-purple/ or sienna St hollow, silky-white, black-fibrillose on a pale umber ground below G serrulate, crowded Flesh grey

Gregarious Taste pleasant, odour none Stumps, rotten wood $I_8^1 \times I \times \frac{1}{8}$ in

468 P roseoalbus Gill (from the rosy-white or salmon pileus) a b P expanded, subumbonate St solid, pale rose or white Flesh pale salmon

Trunks, elm Sept -Nov $3\frac{1}{8} \times 3\frac{1}{4} \times \frac{5}{16}$ in

- **469 P leoninus** Quel (from the colour of the pileus, often liontawn) a b c
 - P convex, striate, lemon, yellow, orange, tawny or scarlet, mid darker or orange with sulphur marg St solid, yellowish G often with a yellowish edge
 - Cæspitose Wood, rare Sept-Jan 2 $\frac{3}{4} \times 2\frac{1}{2} \times \frac{1}{4}$ m Var coccineus Mass , P crimson-orange or vermilion
- 470 P chrysophæus Quel (from the dusky-golden stem, Gr chrusos, gold, phaios, dusky) a b c

P plane, cunnamon, marg striate St sulphur, sulphur-white or yellowish G colour as St, then salmon

Taste insipid, odour none or subacid. kotten wood, rotten sawdust, rotten ash, beech stumps, boards, carth, holiow trees. May-Nov 2½ × 2½ × ½ ± 10.

471 P phlebophorus Gill (from the strongly veined pileus, Gr phleps, a vein, phero, to carry) a b c

P convex, subumbonate, umber, marg plan St hollow, white Flesh greyish-white

Dead stumps, rotten wood, sawdust, sticks, rare June-Oct 2 x 2 x 2 x x 1 in

- 472 P umbrinellus Gill (from its umber pileus) a b
 - P submembranous, expanded, sometimes subumbonate, marg fimbriate St hollow, fibrous, shining, whitish becoming brownish

On the ground Oct 11 × 27 × 1 in

XV ENTOLOMA Quel

(From the potential, rather than definite veil, Gr entos, within, loma, a fringe)

Veil universal, faintly indicated by silkiness, flock, or scaliness Hymenophore confluent and homogeneous with the fleshy stem Pileus somewhat fleshy, margin at first incurved Stem central, simple, fleshy, fibrous, soft or sometimes waxy Gills sinuato-adnexed, sinuate or adnate often separating from stem, at first white then usually salmon Spores elliptical and smooth or subglobose and coarsely warted, rosy or salmon (Fig. 24)

All the species grow on the ground in fields and woods chiefly after heavy rain, several appear in spring and summer, none are known to be edible, some are poisonous, many smell of meal

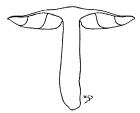


Fig 24 -Section of Inteloma rho lopolium Quel One quarter natural size

Entoloma agrees in structure and habit with Tricholoma and Hibbloma, and to a great extent with Hipholoma. It is necessary to carefully distinguish the rose-and salmon coloured spores of Entoloma from the sometimes pale clay-coloured spores of Hibbloma.

Species 473—502

- a Genuina Pileus fleshy, when full grown smooth, often viscid but not hygrophanous, not innato-floccose or squamulose 473—483
- b Liptonidea Pilius dry, except 484, flocculose, somewhat scaly 484—490
- c Nolandow Pukus thin, commonly irregular and repand, for the most part scissile, hygrophanous, smooth, with a silky appearance when dry 491—502

a Genuina

- 473 E sinuatum Quel (from the sinuate margin of the pileus) a b c P expanded, then repand, white or shaded tan, lavender, pale yellowish or brownish St solid, whitish G at first lividwhitish, then pinkish, at length brownish salmon
 - Gregarious Poisonous Odour strong pleasant somewhat of burnt sugar Woods, mixed July –Oct $7 \times 5 \times 1$ in J' sometimes 8 to 10 in in diam Voung examples are sometimes mistaken for the mushroom
- 474 E lividum Quél (from the livid colour of the pileus) a b
 P plane, broadly subumbonate, livid tan, mid pale yellowishbuff St subhollow, whitish G adnexo-rounded, salmon
 - Poisonous Odour of new meal or none Woods April-Oct $4\frac{2}{5} \times 3\frac{1}{2} \times \frac{7}{5}$ in Sometimes mistaken for the mushroom \ \ar roseum Sacc, \ P \ \text{slightly} rose tinted, \ \log \text{log}

- 475. E. prunuloides Quél (from its odour being like that of 508

 Clitopilus prunulus Quél) a b c
 - P convex, broadly subumbonate, whitish, yellowish, greyish or brown, marg stricte St solid, white G emarginate, salmon Scattered Odour of new med, after miturity like decrying turnips Woods, amongst moss and grass, uncommon May-bept 27 × 2 × 1/4 in
- 475a E porphyrophæum Karst (Gr porphurcos, purple, phatos, dusky) a
 - P campanulate, expanded, subumbonate, not hygrophanous, even, almost glabrous, opaque sooty-brown or deep umber, becoming paler and mouse-colour when dry, marg wavy, often incised and lobed St solid, attenuate upwards fibrous, soft, opaque sooty-purple or brownish, base white-downy G truncate behind, almost free, subdistant, ventricose, greyish-white to reddish-grey or salmon Flosh white
- Amongst grass Autumn $3\frac{9}{8} \times 4\frac{1}{4} \times \frac{1}{16}$ in Must not be confused with 486 476 E repandum Gill (from the pilcus being occasionally repand),
- P expanded, umbonate, whitish or faintly ochreous marg lobed St solid, colour as P G emarginate, salmon or faintly ochreous
 - Odour of new meal Amongst grass , rare June–Oct $3\times 2\frac{1}{4}\times \frac{1}{8}$ in Not unlike some forms of the mushroom
- 476a E erophilum Karst (from its frequent appearance in spring, Gr cros, spring, philos, loving) a b
 - P convex, obtuse to umbonate, venoso-striate, dry, pale ashy or pale olive-brownish, mid somewhat darker of solid, equal or attenuate downwards, farinose, white, shaded ivory G rounded-adnate, broad, subdistant, pallid or pale salmon Flesh white
 - Woods, imongst grass, often in large circles Sept $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{5}{16}$ in
- 477 E placenta Quel (from the shape of the pileus, placenta, a flat cake) a b
 - P flat, umbonate, brownish or brown St solid, tan-brownish G emarginate, pallid flesh-colour Flish thin
 - Solutary Taste at length acrid , odour none Hedge rows, damp places , rare April Oct $2\frac{1}{4} \times 3 \times \frac{1}{4}$ in
- 478 E helodes Gill (from its frequent habitat, (ir hidos, a marsh) a

 P umbonate, ashy or sooty-purplish

 G adnate, salmon

 Flish thin, pallid
 - Taste watery , odour of new meal Grassy places, heathy pastures, turfy swamps, moors Autumn $2\S \times 1\S \times \S$ in
- 479 E Batschianum Karst (after Aug Jo Georg Car Batsch) a c P convex, subumbonate, dark fuscous St hollow, grey G adnate, subsmuate, ashy or sooty Flesh colour as P, white when dry
 - Odour none Woods, moist places, amongst grass in damp places
 Oct 14 × 34 × 4 in Resembles one of the Pratelli as 804

- 480 E Bloxamii Sacc (after the Rev A Bloxam) a b c
 - P convex, umbonate or pipillate, waved, splitting, dull dark purple SI solid, lighter than P G adnexed, pale salmon
 - Downs and exposed pastures Sept-Nov 4½ × 2½ × 8 in Compare
- 480a E Farrahii Mass & Crossl (after Mr John Farrah) a
 - P cylindrico-ovate, then campanulite and somewhat repand, umbonate, smooth, fibrilloso-silky, blackish-blue, marg pallid St solid, ventricose, glabrous, colour as P with a white base G sinuato-adnesed broad, ventricose, somewhat distant, salmon-colour
 - Gregarious Taste mild , odour none Amongst short grass $2\frac{1}{4} \times 2\frac{1}{2} \times \frac{3}{6}$ in Differs from its allies in its smooth, elliptic d spores
- **481 E ardosiaeum** Quel (from its slate-coloured pileus, *ardosia*, a slate) *a c*
 - P convex steel-blue, shaded greenish brownish or purplish

 St hollow, steel-blue white at base of free, grey then
 salition I list dull pale purplish
 - Odour none Meadows, pastures, moist grass places and under pines $3^3_1 \times 4 \times 3^6_7$ in Might be mistaken for one of the Pratelli as 802
- 482 E liquescens Sacc (from the gills becoming liquescent) a b

 P campanulate, broadly subumbonate, or breous mid sierna

 St hollow, white G free, crowded pale slate
 - Gregarious Under trees April 2, \times 2, \times 4 in Deli juescent like a Coprinio which character with the dull pink spores and time of growth points to bollatin. Kesembles one of the I-atil
- 482a E madidum (all (from the moist pilcus madidus, moist) a b

 P campanulate, convex, obtuse, even, glabrous, moist, often viscid in ramy weather, shining when dry, not hygrophanous when young blackish-violet, purple-slate, dull smalt or dull deep cobalt, sooty when old mid umber and whitish-vellow, marg thin, inflexed, substricte St hollow, sometimes solid, flesh-fibrous, slightly attenuate upwards, fibrillose, tpex naked, colour as P, base whitish G slightly adnexed ventricose, greyish-white to salmon Flesh white
 - Suspected poisonous Odour stron, pungent, like 1341 \text{ mongst moss, leaf heaps, etc } 2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2} \text{ in Much like 480 in appearance}
- 483 E ameides Sacc (from its odour of starch) a b
 - P convex, broadly subumbonate, pale reddish grev mid darker St stuffed, paler than P or almost white G emarginato-adnexed, pale pink
 - lasteless, odour of hay, apples, meal, linseed, orange flower water and starch Pastures Sept -Nov 2 × 2½ × ½ 10 Changing to yellowish or reddish when bruised Must not be mistaken for 1222

b Leptonideæ

- 484 E Saundersii Sacc (after W Wilson Saunders) a b
 - P expanded, broadly subumbonate, then repand, glutinous, white, becoming fuscous St solid, silky-fibrous, whitish G emarginato-adnexed, salmon
 - Cæspitose On earth, river sand, sawdust, rare June-Oct 3½ × 4 × § in
- 485 E fertile Gill (from its large, fruitful appearance) a b
 - P expanded, broadly subumbonate, pinkish-buff S' solid, fibrillose, whitish G emarginato-adnexed, salmon

Woods rare Aug-Sept 61 × 41 × 11 in

crowded, narrow, whitish flesh-colour

485a E Rozei Quél (after M E Roze, French mycologist) α ε P convexo-plane, thin, pallid grei, or somewhat pale, dull slate-grey, paler when dry, minutely white-velvety or silky shining Sε solid, tough silky-fibrillose, white G adnate,

Amongst pines Oct $1\frac{1}{2} \times 2\frac{3}{8} \times \frac{3}{10}$ in Wholly dark umber when dry

- **486 E jubatum** Karst (from the fibrillose pileus, *jubatus*, having a mane) *a b*
 - P expanded, unibonate, mouse-colour St hollow, colour as P G adnexed, salmon or dusky purplish
 - Single or crespitose Taste waters, disagreeable Old pastures and mossy places May-Dec 3\frac{1}{4} \times \frac{1}{16} in Must not be confused with 475a.
- 487 E resutum Karst (from the fibrillose pileus, risutus, ripped open) a
 - P convex, subumbonate, fuscous St stuffed, smooth, greyish. G adnesed, grey or reddish-grey

Odour none Old pastures, woods Oct 12 × 34 × 1 in

488 E griseocyaneum Quel (grissus, grcy, cjaneus, dark blue) a c
P campanulate, steel-grey, hlac shaded St hollow, fibrillose,
colour as P or whitish G adneved or adnute, ventricose,
salmon

Sunny pastures, grassy places, open woods, rarc Oct 14 × 3 × 3 in

488a E pulvereum Rea (from the mealy stem, pulvercus, dusty) a.

P campanulate then flat, minutely scaly, fuliginous, marg at first striate St stuffed then hollow, velvety, covered with reddish meal G thick, sinuato adnate, veined, somewhat distant, exceeding marg of P, edge irregular, pale or pinkish, then deep rose

Amongst oak leaves, under holly Oct 17 × 27 × 10 in

- 489 E sericellum Quél (from the slightly silky pileus, sericeus, silky) a b c
 - P plane, whitish St subhollow, smooth, white G adnate, salmon

Gregarious Odour none Woods, grassy places , frequent July-Oct $\frac{2}{8} \times 1\frac{8}{9} \times \frac{1}{10}$ in

489a E Cookei Ch Richon (after Dr M C Cooke) a

P convex, expanded, pale reddish- or sienna-orange or brick-red, reticulate all over with raised pale yellowish ribs, marg incurved St solid, often slightly incurved, almost central, whitish, shaded pale yellowish G adnexed, subdistant, thickish, pale salmon Flesh thick at disc of P, thin elsewhere, colour as G

Stumps Autumn $1\frac{1}{2} \times 1 \times \frac{3}{16}$ in Cooke described this as a form of 471, but Ch Richon and Massee have made it an *Entoloma* I have followed them with great doubt, thinking it more probably an abnormal form of 412

490 E Thomsonii Sacc (after Dr Thomson) a

P flat, umbonate, velvety, grey mid reticulato-ribbed St subhollow, tomentose, paler than P G adnexed, salmon Amongst grass in plantations Autumn $1_4 \times 1_5^2 \times 3_7^2$ in

c Volander

- 491 E clypeatum Quel (from the shape of the pileus clypeus, a shield) a b c
 - P flat, umbonate, umber or grev-brown, streaked darker St stuffed or hollow, paler than P or almost white G adnexorounded, salmon or shaded grevish or brownish
 - Solitary or crespitose Woods, gardens, waste places , frequent April–Oct $3\frac{1}{4} \times 4\frac{4}{3} \times \frac{8}{3}$ in
- **492 E nigroeinnamomeum** Sacc (from the blackish cinnamon colour of the pileus) *a b*
 - P flat, umbonate, moist, shining, silky when dry SY hollow, fibrillose, grey-brown G emarginato-rounded, reddish salmon G recurrous Odour of new meal Pastures, amongst grass and heather Oct $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ in
- 493 E rhodopolium Quel (from its occasionally rosy-grey colour, Gr rhodon, a rose, polices, grey) a b c
 - P expanded, subumbonate varying pale to dark fuscous, livid, brown or purplish-brown St stuffed or hollow, smooth, whitish G sinuste, rose
 - Odour rank of new meal, of 1527, of nitric acid or none Woods, frequent May-Oct 21 × 31 × 1 in
- 494 E pluteoides Karst (from its resemblance to *Pluteus*) a b

 P convexo-plane, subumbonate pale purplish-slate St hollow,
 fibrillose, whitish G cmarginato-adnexed, crowded, salmon

 Stumps 2½ × 3½ × ½ 100
- 495 E majale Karst (from its appearance in May) a P campanulate, subumbonate, dark ochreous or brown, becoming pale St hollow, whitish G free, salmon Flesh very thim Subcæspitost Meadows, open woods, mossy places in fir woods, rare April-May 3± x 3£ x § n

- 496 E Wynnel Sacc (after Mrs Lloyd Wynne) a b
 - P plane, smooth, sometimes umbilicate, pale umber or smoly, marg crisped, striate, at first smooth, then breaking up into minute sc. St hollow, dusky grey G sinuate, veined, pallid salmon
 - Taste insipid, odour of bugs or like 1278 Woods, fir Sept-Nov $2\frac{1}{4} \times 3 \times j_0^2$ in Alhed to 497, but with G less veined, less undulate and less distant
- **497** E costatum Gill (from the transverse 11bs or veins on the gills, costa, a 11b) a b c
 - P plane, fuscous-livid or greyish St hollow, colour as P G very broad, almost free, salmon
 - Solitary or crespitose Odour none Damp mendows, pastures, swampy ground, grass covered stumps common Aug-Nov $2\frac{1}{8} \times 2 \times \frac{1}{16}$ in
- 498 E sericeum Quel (from the silky pileus sericeus, silky) a b c P plane, umber mid darker St hollow, pale greyish-umber G emarginate, grevish then ruf-scent
 - $\begin{array}{lll} \mbox{Gregarious} & \mbox{Odour strong of new med} & \mbox{Meadows open woods} & \mbox{frequent} \\ \mbox{May-Oct} & 2 \times 2_b^4 \times 1_c^4 & \mbox{in} & \mbox{This and 499 may be one species} \end{array}$
- 499 E Persoonii Sacc (after C H Persoon) a b c
 - P campanulate subumbonate, silky fibrous, splitting, membranous, white, mid faintly ochrous, marg stricte to disc $\mathcal{S}I$ hollow above, abruptiv bulbous, cartilaginous, white G adnexoadnate, pale rose or flesh-colour, then darker
 - Grassv places Autumn $2 \times 2^{i}_{5} \times {}^{3}_{1^{i}_{5}}$ in
- 500 E nidorosum Quel (from its strong odour nidor, recking) a b c P plane, ashv fawn-colour, whitish or purple-brown St stuffed, whitish G emarginate, salmon
 - Odour nitrous, alkaline, sometimes obsolete I awns, open woods, common Aug Nov. 3 × 33 × 16 in
- 501 E speculum Quel (from the shining pileus, speculum, a mirror)
 - P plane or depressed, umbonate, whitish-straw or whitish, marg striate 5t stuffed or hollow, paler than P G adnexo-free, ventricose, salmon
 - Solitary or subcrespitose Odour none Amongst grass and twigs Oct $2\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{4}$ in
- 502 E tortipes Mass (from the twisted stem, tortus, twisted, pes, a foot) a b
 - P hygrophanous, thin, splitting, plane, depressed, unibonate, livid brown St solid, with a bank, striate above, pale brown within and without G sinuate, salmon-white
 - On dung Autumn $3\frac{5}{8} \times 2\frac{1}{2} \times \frac{7}{11}$ in

XVI CLITOPILUS Ouel

(From the decurrent hymenophore, Gr khtos, a declivity, files, a cap)

Val indicated by silkiness and flock Hymenophore confluent and homogeneous with the fleshy stem Pilius more or less depressed or umbilicate, margin at first involute Stim central, simple, fleshy

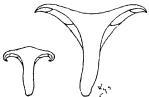


Fig 2 - Section of (11 pilus prunuius Que One haf natural 126

or fibrous Gills decurrent white, except 506, then salmon Sporzs smooth or warted, salmon, sometimes very pale (114, 25)

All the species grow on the ground. They have a more or less mealy odour. Some are tasteless, others edible

Chtopilus agrees in structure with Chtocibe and in part with Flammula Species 503—513

- a Oralia Pileus irregular, somewhat excentric, flexuous, somewhat hygrophanous, margin at first flocculose Gills deeply decurrent 508 509
- b Scricellae Pileus regular, silky or hygrophanous-silky, margin involute, naked Gills adnate, slightly decurrent 510—513

a Orcella

- **503 C prunulus** Quel (from the prumose appearance of the pileus)
 - P plane or convex, broadly subumbonate when young faintly grey, then whitish St solid, frequently central, paler than P G subdistant, flesh-colour
 - Edible Odour strong of new meal, or like 1527. Woods and open places, common June Oct. 3½ × 2, × ½ in. This and 504 are not insect eaten.
- 504 P oreella Quel (from the old Italian popular name, orgella, like an ear) a b c
 - P plano-depressed, lobed, undulate, white \$7\$ solid flocculose, often excentric, colour as P G crowded, whitish flesh-colour
 - In troops 1 dible Odour as in 503 or of Symga leaf or enumber, or fresh meal and encumber Open gross places, sometimes in rings 20 feet in diam, frequent lune-Oct 4\$ × \$ × \$ in Intermediate forms occur between this and 503

505 C mundulus Gill (mundus, neat) a b c

P convex, then depressed, white St stuffed, sometimes excentric, white, becoming black internally at base G crowded whitish salmon Flish white

Taste bitter, odour none Woods, amongst leaves, uncommon Autumn $1\frac{2}{3} \times \frac{5}{3} \times \frac{3}{5}$ in In var nigrescens Sacc the flesh becomes wholly black

505a C Sarnicus Mass (after the place of finding—Sarnia, the Roman name for Guernsey) *a*

P campanulate, plane, subumbonate, often more or less depressed round the um, slightly striate when moist even when dry, minutely silky-flocculose, mouse-colour or grey, paler with a ruddy tinge when dry St minutely fistulose, equal, subflexuous, even, glabrous, white G subcrowded, plane nearly to the stem, then suddenly decurrent, pinkish-salmon Flesh very thin

On the ground, in Guernsey 11 x 11 x 11 in Allied to 505

506 C popinalis Gill (from its edible qualities, popina, α cookshop) a b c

P convex, subumbonate or depressed, ashy or dull slate St stuffed, paler than P G crowded, grey or brown, becoming reddish

Solitary or gregarious Odour of new meal or rank and strong Downs, fields, grassy roadsides Aug -Oct $2\frac{4}{5} \times 1\frac{7}{5} \times \frac{1}{2}$ in

507 C undatus Gill (from the undulate pilcus) a b c

P expanded depressed, sometimes much lobed, sometimes with a papilla, dull ash, or tan-ochreous St hollow, colour as P or paler, faintly salmon-shaded G not crowded, salmon sometimes reddish

Odour none Downs, etc Oct 12 × 13 × 1 m

508 C cancerinus Quel (from the frequently cracked pileus, cancer, a lattice) a b ε

P hemispherical, depressed, dry, at length shining and silky fibrillose, whitish St stuffed or fistulose colour as P G distant flesh-colour

Odour none Pastures July-Oct 11 × 11 × 11 × 1

509 C cretatus Sacc (from the colour of the pileus, creta, chalk)

P lobed, umbilicato-depressed St excentric, tomentose, colour as P G rose

Solitary or gregarious Woods, pastures , uncommon Oct $\frac{3}{4} \times \frac{1}{4} \times \frac{1}{16}$ in Resembles a small 504

b Serreella

510 C earneoalbus Gill (from the flesh-coloured gills and white pileus, caro, flesh, albus, white) a b c

P convexo-plane, subdepressed, white, faintly greyish or rufescent St stuffed or hollow, white G subdistant, flesh-colour

Gregarious Odour none Woods, heathy places Sept $1\frac{3}{8} \times 2 \times \frac{3}{16}$ in

511 C vilis Gill (vilis, insignificant) a b c

P convex, depressed, grey St fistulose, colour as P G crowded, pale salmon

Downs, amongst moss July-Aug 11 × 23 × 1 in

512 C stilboeephalus Sacc (from the sparkling pileus, Gr stilbo, to glisten, kephali, a head) a b

P campanulate, obtuse or umbonate, whitish or grevish um and marg sometimes ochreous SI hollow, pale grevish, pallid below G sinuate, veined, salmon

Odour of new meal Aug -Oct 13 × 31 × 1 in

513 C straminipes Since (from the straw-coloured stem, stramen, a straw, pes, a foot) a b

P expanded, depressed, subumbonate, glabrous, shining-silky, whitish or faintly ochreous St hollow white farinose above G salmon

Among grass Sept 2 x 2 x 1 in Vers fragile

XVII LEPTONIA Quel

(From the slender growth Gr hpos, slender)

I cil indicated by fibrilla scales dots on stem, etc. Hymenophore confluent with but heterogeneous from the cartilaginous stem

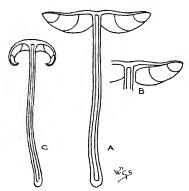


Fig. .6 – A section of I eponia timprepus Quel showing it is separation of calls from hymenophore it section of I can be Quel. Natural size.

Pileus thm, umbilicate or with a dark middle, cuticle fibrillose or separating into darker scales margin at first incurved Stem central,

simple, cartilaginous, tubular or stuffed, glabrous, sublustrous *Gills* adnexed or adnate, readily separating from their attachment to the stem, not decurrent, variable in colour *Spores* smooth or rough, salmon (Fig 26)

Many of the species are gregarious and grow in troops, they are mostly small, inodorous, except 517 and 524, and often beautiful in colour, shades of light or dark blue or green being frequent

All grow on the ground except 521, they chiefly grow in mossy pastures and marsh places. One non-British species—L parasitiva Quel—grows on the hymenium of 1370. They are most common in rainy seasons. The species generally are suspected to be poisonous.

Lepton a agrees in structure with Collybra, Naucoria, Psilocybe and Panæolus Species 514—528

Pileus slightly fleshy, without striæ, hygrophanous Gills whitish

514—519 520—523

Gills light or dark blue or bluish

524—526

Gills pallid, becoming yellow or green
Pileus somewhat striate, hygrophanous

Gills grev or glaucous 527, 528

514 L placida Karst (from its pleasing appearance) a

P campanulate, broadly subumbonate dusky brown or duskyslatt-squamulose on a tan ground 5/ stuffed, slatt-blue, black-dotted above G adnexed or somewhat adnate salmonwhite Floor brownish or lavender

Usually solitary – Ly beech trunks – Autumn – $2 \times 2\frac{1}{2} \times \frac{3}{16}$ in

- 515 L anatina Quel (from the colours anatinus, pertaining to a duck) a b ε
 - P campanulate, broadly subumbonate, umber-squamulose St stuffed purple-bluish or smalt above, brown and whitish below G adnexed or somewhat adnate, pale salmon

Fields Oct I x x 14 x 4 m

- 516 L lappula Quel (from the prickly pilcus, lappa, a burr) a
 - P convex, umbilicate, grev or purple-slate, mid black-punctate St hollow, hlac, shaded brownish G subadnate, broad, white, faint greyish or whitish-salmon

Odour none Amongst beech leaves Autumn $1\frac{1}{2} \times 2_{\not k} \times {}_{1 \not k}^{i}$ in

- 517 L lampropus Quel (from the lustrous stcm, Gr lampros, shining, pous, a foot) a b c
 - P expanded, depressed, mouse-colour, steel-blue, palled vellowish, brownish or brown St fistulose, steel-blue, pale slate or purplish, brownish below, white at base G adnexed or subadnate, broad, pale salmon
 - Taste and odour somewhat strong, disagreeable Pastures , common July-Nov $\mathbf{1}_8^2 \times \mathbf{2}_4^1 \times \mathbf{1}_8^2$ in

- 518 L æthiops Gill (from the black pileus and stem, Gr authiops, an Ethiopian) a
 - P plano-depressed, smooth St stuffed, fuscous-blackish G subadnate or adnexed, narrow, pale salmon-white

Woods, grassy places Sept 11 × 21 × 1 in

- 519 L solstitialis Gill (from its sometimes appearing in the summer solstice—June) a
 - P plane, umbonate, fuscous, brown- or olive-shaded St fistulose, dusky, whitish above or as P G emarginate, pale salmon Amongst stones, grassy ground, woods Aug Sept 1½ × 2 × ½ in
- 520 L serrulata Quél (from the black-toothed edge of the gills, contrasted with 528 serrula, a saw) a b ε
 - P convex, depressed, blackish-blue St fistulose, paler than P G adnexed or adnate, slate-whitish, then grey-salmon, varying slate-purplish Flish slate-white
- Sometimes cæspitose Pastures and grassy woods June-Oct $I_{R} \times 2\frac{1}{2} \times \frac{1}{8}$ in
- 521 L euchroa Gill (from its fine colour, Gr euchroos) a b c
 - P convex, subumbonate, purple-blue or bright smalt-purple stuffed, colour as P or lighter, or bluish ffesh-colour G adnexed or subadnate, pale grey-blue, blue, purple-blue or slate Solitar, gregarious or cespitose Probably poisonous Woods, trunks stumps, branches, alder hazel, rare Aug -Oct 1½ × 2 × ½ in Pleus sometimes ½ in or less in diam
- 522 L ehalybæa Quél (from its steel-blue colour Gr chalups, steel) a b c
 - P plane, subumbonate, separable, dark violaceous, brownish-slate or slate with satin-like threads from mid to marg St stuffed, colour as P G adnate, bluish-grey whitish, pale olive-salmon, salmon or purplish
 - Taste somewhat mushroom like, but strong and unpleasant Pastures , frequent $Iuly-(lot 1\frac{1}{3} \times 1\frac{1}{6} \times \frac{1}{5} ln$
- 523 L lazulina Quel (from the lapis lazuli colour of the stem) a b P expanded, dusky-black, steel-slate dark-brown-streaky St fistulose, light or dark blue G adnate, colour as St, then shaded salmon Flath slate-steel

Gregarious Amongst moss and grass Sept $\frac{7}{8} \times 2\frac{1}{8} \times \frac{1}{16}$ in

524 L incana Gill (incanus, hoary) a b c

- P plane, umbilicate, striate, olive- or bronzi-green, streaked St fistulose, colour as P or verdigris or greenish-blue G adnexed or adnato-toothed, whit sh-green then salmon
- Gregarious ()dour strong of mice Woods, pastures, downs, frequent July-Oct ${}^{1}s \times 2 \times {}^{1}r$ in
- 525 L formosa Gill (formosus, beautiful) a b
 - P plane, broadly umbilicate, yellow or brownish, minutely sootysquamulose St fistulose, yellow G adnato toothed, light salmon-yellow, then pale flesh-colour
 - Amongst Equivetum, grass, commons, pine woods Sept $2\frac{1}{2} \times 3\frac{1}{4} \times \frac{1}{6}$ in Var sugars Sacc St steel bluish

526. L. ehloropolia Gill (from the pale green-grey pileus, Gr chloros, greenish-yellow, polios, hoars) a

P flat, slightly subumbonate, livid or sulphur-livid, mid blark-squamulose St fistulose, colour as P above, pale grey-blush below G adnate, salmon-white

Grassy places, woods Oct 18 x 25 x 1 in

527 L asprella Quel (asper, rough) a b c

P expanded, broadly umbilicate, striate, smoky or mouse-colour, mid villous-squamulose St fistulose, grev-white G adnatorounded, at length grey-salmon

Open pastures, grassy places, uncommon Oct 13 × 13 × 1 in

528 L nefrens Quel (from the edge of the gills being without teeth, contrasted with 520 ne, not, frende, to bite) a

P flat, depressed, smoky, yellowish-umber or olivaceous St fistulose, lighter than P, or fuscous-livid G adnexed or adnate, at length light red with a blackish edge

Grassv places Autumn $\mathbf{1}_{\mathbf{5}}^{\mathbf{f}} \times \mathbf{1}_{\mathbf{5}}^{\mathbf{g}} \times \mathbf{1}_{\mathbf{1}_{\mathbf{5}}}^{\mathbf{g}}$ in

XVIII NOLANEA Quel

(From a fancied resemblance in the pileus to a little bell, nola)

Veil indicated by fibrils, squamules silkiness or flock. Mr. George Massee has observed a rudimentary annulus in 534. Hymenophore

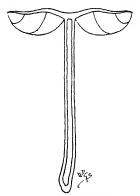


Fig 27 - Section of Aolania pascua Quel

confluent with but heterogeneous from the cartilaginous stem *Pileus* submembranaceous, more or less campanulate, subpapillate or

subumbonate, not umbilicate, except 536 and 542, striate, even or floccose, margin straight, at first adpressed to the stem, not involute $S_{q,m}$ central, simple, fistulose or stuffed, cartilaginous Gills free or adfived, not decurrent, usually whitish at first, then salmon or rose Spars rose-coloured or salmon (Fig 27)

115

The species are thin, slender, and usually brittle, some are tough They are terrestrial except 541, and appear in summer and autumn on grassy hills and in damp places in woods

The group generally is suspected to be poisonous

Nolanea agrees in structure with Mycena, Galera, Psathyra, and Psathyrella Species 529-543

thyrella Species 529—548

Pulcus dark-coloured, hygrophanous Gills grey or fuscous

Gills becoming yellow or rufescent 529—538

Side 534—537

Pileus hygrophanous Gills shining white then rosy 540—543

Fileus not hygrophanous Gills whitish 540—543

529 N paseua Quel (from its habitat, pastures) a b c
P flat or subumbonate, silky, grey- or pinkish-brown faintly brownish or ochreous, or almost white adneved, pale salmon

Odour none Fields, open woods, common May-Nov 17 × 23 × 18 in

530 N Babingtonii Sacc (after Prof C C Babington) a

P contco-campanulate, ashy-grey, mid dark-brown-squamulose
St equal, downy, dark brown G adnato-ascending, ashy-grey
Woods rate Oct - Nov. \(\frac{1}{2}\times 1\frac{1}{2}\times 1\frac

531 N mammosa Quel (from the shape of the pileus, mamma, a breast) a b c

P umber or smoky St smoky white-brown G adnexed,

Lawns, woods Feb $2_8 \times 3\frac{1}{2} \times \frac{3}{16}$ in Often grows in company with 1238

531a N papillata Bres (from the papillate pileus)

P submembranaceous, subcampanulate, convex, expanded, striate, fuscous-bay becoming cinnamon St glabrous, shining, obsoletely white-mealy at apex, white-tomentose at base G sinuato-adnate, somewhat crowded, livid white becoming fuscous flesh colour Flesh colour as P but paler

Odour pleasant sometimes absent. In grassy or woods places. Sept $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{10}$ in

532 N juneea Quel (from its usual habitat, rushy places, juncus, a rush) a b

P hemispherical, papillate or subumbilicate, smoky or umber St smooth, reddish-brown G adnato-ascending grey- or brownish-salmon

Odour none Woods, commons Oct 11 x 23 x 1 in

- 533 N fulvostrigosa Sacc (from the tawny strigose stem)
- P hemispherical, subwrinkled, grey St furfuraceo-squamulose, reddish G adnate, grey

 Woods Sept $\frac{3}{4} \times \frac{1}{12} \times \frac{1}{16}$ in
- 534 N piseiodora Gill (from its fishy odour, piscis, a fish, odor, a smell) a b c
 - P campanulate, velvety, umbonate, tawny-cinnamon, salmonbrownish or dark brown St rarely with a rudimentary A, chestnut-brown or black G adnexed, toothed, pale yellowish-tawny, then flesh-coloui or dull salmon Flesh warm brown, dark at base of stem
 - Odrur strong of rotten fish, varying to cucumber Woods, amongst decayed leaves, on sticks, frequent Oct 18 × 2½ × ½ in This may be only a form of 709 See 239, 535 and 538 Spores may possibly vary white, salmon and brown
- 535 N nigripes Gill (from the black stem niger, black, pes, a foot)
 - P hemispherical, floccose, fuscous or umber St equal, twisted, somewhat wavy, hollow G adnexed, vellow-flesh-colour or salmon
 - Odour as in 534 Swamps Nov $\mathbf{I}_{4}^{3} \times \mathbf{3}_{6}^{7} \times \mathbf{1}_{8}^{1}$ in Perhaps a form of 534
- 536 N rufocarnea Sacc (from its colour, rufus, reddish, care, flesh) a b c
 - P hemispherical, subumbilicate, red-brown of minutely fibrillose, pale rufous G adnate, rose-colour

Taste somewhat bitter Grassy heaths, frequent Sept $1\frac{1}{2} \times 2 \times \frac{1}{5}$ in

- 537 N interina Quél (from its colour Gr ikteres, jaundice) a b P hemispherical, sometimes papillate, slightly silky grachish-sulphur or olive-brassy St stuffed, colour as P or full ochreous G adnexed, adnate or decurrent, salmon-white to salmon, saffron in decay Flesh sulphur in P, white with a buff bark in St
 - Woods, gardens Oct $1\frac{1}{4} \times 1\frac{1}{8} \times \frac{1}{8}$ in
- 538 N pieca Gill (from the more or less pitch-black colour piecus, pitch-black) a b
 - P campanulate, papillate, smooth, at first umber marg lighter, shaded slate St pruinose, colour as P, or dull salmon, blotched and shaded slate G ascending, cmarginate, flesh-colour
 - Odour of decaying fish and cucumber Grassy places, gardens $1\frac{1}{4} \times 2\frac{1}{2} \times \frac{1}{8}$ in Perhaps the same as 534, 535 and 709
- 539 N infula Gill (perhaps from the lustrous gills, at first dazzling white then rose, infula, a fillet or ornament) a b
 - P plane, papillate, fawn or smoky when damp, ochreous-tan when dry St smooth, colour as P or grey-brown G varied in attachment
 - Odour none Lawns, woods, burnt ground Sept -Oct 1 x 2½ x 1/8 in

- 540 N verecunda Gill (from its appearance, verecundus, modest) a P convex, umbonate, watery-reddish St faintly ochreous G adnate, salmon-white Spores reddish
- Densely gregarious or in troops Amongst short grass Sept $\frac{3}{4} \times \frac{7}{8} \times \frac{1}{8}$ in 541 N ecelestina Gill (from the colour of the pileus, sometimes
- azure, cœlum, the sky) a P convex, umbonate, pale slate St colour as P G adnate, salmon-grey or hoary-white Spores faintly rosy

Woods, pine, on wood, rotten oak Oct 11 × 21 × 1 in

541a N exilis Quel (exilis, small)

P membranous, conical, expanded, glabrous, striate, livid grey to lilac, mid papillose, darker St hollow, glabrous, tough, apex naked, greyish-green G adnexed, subcrowded, whitish with a tinge of pink

Amongst grass, leaves, etc., under beeches, pines, in swamps 2×3×1 in Allied to 526 but more slender and delicate

542 N RUBIDA Sacc (from its frequent reddish tinge) a b c

P convex, subumbilicate, greyish or faintly ruddy St attenuate below, colour as P or paler G adnate, rose

Odour of new meal Amongst grass in a conservatory Mar-Nov 1 × 1 × 1 m

543 N KHODOSPORA Sacc & D Sacc (from the rose-coloured spores) a b c

P convex, sooty-fibrillose or rufescent-pilose St subbulbous. white G sinuate or free, salmon or rose On earth and wooden borders in stoves May-Sept I × 11 × 12 in

XIX ECCILIA Quel

(From the hollowed out or depressed pileus, Gr ekkorloo, to hollow out)

Veil represented by pruina, fibrillæ or dot-like scales Hymenophore confluent with but heterogeneous from the cartilaginous stem

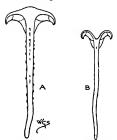


Fig 28 -A, section of Eccilia atropuncta Gill B, section of E acus Sacc Natural size

Pileus somewhat membranous, margin at first incurved, umbilicate, except 548. Stem central, simple, fistulose, stuffed in 550 Gifts decurrent, not separating from their attachment to the stem as in Nolanca Spores smooth or warted, salmon or rose-colour (Fig 28)

Most of the species grow on the ground, one grows on rotten

wood and on walls, another amongst leaves

Eccilia agrees in structure with Omphalia and Tubaria

Species **544**—**552**

544 E parkensis Quel (from its being first noted in the King's park, Upsala) a c

P plano-convex, fuscous or blackish, not pale when dry marg substriate St attenuate downwards, not dotted, fuscous G dull flesh-colour

Grassy places $\mbox{ Julv-Aug }\mbox{ }\mbox$

545 E carneogrisea (rill (from the colour of the pileus, caro, flesh, griscus, grey) a b

P plane, marg striate St colour as P G distant, rosy, edge darker

Gregarious Amongst fir leaves, grass Aug –()ct $1\frac{1}{8} \times 1\frac{1}{2} \times \frac{1}{8}$ in

545a E Smithii W G Sm., Agaricus Smithii Mass (after Worthington George Smith) a b

P soon plane, orbicular, umbilicate, even, atomate, vellowish- or buff-white marg somewhat undulate, becoming salmon-striate St equal or slightly attenuate upwards, surface undulate, fibrillose salmon, paler above, white downy below G broadly adnoto-decurrent, salmon-rose Fhish somewhat thick evec pt at marg, pale salmon-white

On the ground Oct $1\frac{1}{2} \times 2\frac{1}{8} \times \frac{1}{8}$ in Differs from 512 in the plane pileus, coloured stem, different spores, etc

546 E griseorubella Quel (from the reddish grey pileus) a

P hygrophanous, plane, brown or grev-brown marg striate St smooth, colour as P G subdistant, flesh-colour

Gregarious Suspected poisonous Inodorous ()n earth and wood Autumn $1\frac{1}{8} \times 2 \times \frac{1}{8}$ in

547 E atrides Quél (ater, black) a

P plane, fuscous, black-streaked, becoming pale marg striate St pallid, black-dotted upwards G distant, slightly serrulate, pallid with a black edge.

Gregarious Woods, moist places Autumn $1\frac{1}{2} \times 1\frac{1}{8} \times \frac{1}{8}$ in Perhaps a form of 520

548 E atropuneta Gill (from the black-dotted stem, ater, black, punctum, a dot) a b c

P convex, pale ashy or dull umber, marg lighter St umber, dark or pale, black-punctato-scaly G distant, ashy flesh-colour Taste disagreeable On the ground amongst moss Sept - Oct $\frac{1}{4} \times 1\frac{1}{2} \times \frac{1}{8}$ in

549 E nigrella Gill (from the blackish pileus, niger, black) a b
P smooth, deep umber St glaucous, pale salmon-brown, not black-punctate G flesh-colour or subashy, not serrulate or with a black edge

Sometimes cæspitose Pastures Autumn $\frac{1}{2} \times 2 \times \frac{1}{16}$ in

550 E rhodocylix Gill (from the resemblance of the pileus to a rose-coloured cup, Gr rhodon, a rose, kulix, a cup) a b

P convex, fuscous, grev or tan, marg striate when moist stuffed, ashy, tan, or white G very distant, flesh-colour

Rotten wood, stumps alder, wall tops Sept 1½ × 1 × ½ in In the voung state when the gills are white this resembles 386

551 E ILOSCIITS Sacc (from its likeness to a small flower) a b P slightly irregular, pruinoso-crystalline pink-tan, mid dark brown St pruinose or innately fibrillose, pinkish-tan, dark at base G slightly way, bright rose

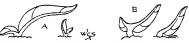
In conservatories, on the ground and on tree fern stems. June $\frac{7}{8} \times \frac{3}{8} \times \frac{1}{18}$ in

552 E ACUS Sacc (from the needle-like stem acus, a needle) a b P deeply umbilicate prunose, white marg incurved, striate Sf smooth, white G thick, distant, deeply decurrent, rose Coco nut fibre in conservatories. Aug \(\frac{1}{2} \times \tau_1^2 \times \tau_1^2\).

XX CLAUDOPUS Gill

(From its dwarfed stem, claudus, lame, Gr peus, a foot)

Veil represented by tomentum or down Hymenophore confluent and homogeneous with the fleshy stem when the latter is present Pileus excentric, lateral or resupinite Sum, when present, lateral,



F1_b 29—A sections of Claudopus variabilis Cill B sections of

simple, without cartilaginous bark Gills reaching to the excentric stem or axis Spores smooth or warted, rubiginous (Fig 29)

The species are small Claudopus agrees in structure and habit with Plaurotus and Crepidotus

They grow on wood or on the ground with Plaurotus and Species 553—555

553 C variabilis Gill (from its variability) a b c

P resupinate, then reflexed, white-tomentose St minute, excentric or none G salmon-pink or salmon-brownish

Sticks, stumps, leaves, oak, beech, muple, brumble, apple, sedge, moss, living chickweed, common May-Mar Drum 1½ in Sometimes sterile with white gills Sometimes & in cless in diam

- 554. C depluens Gill (from its watery substance, depluo, to rain)
 a b c
 - P resupinate, then reflexed, hygrophanous, rufescent-hoary
 St small, lateral, rarely central, or none, white villous G
 adnato-decurrent, rufescent
 - On the ground, amongst moss, sawdust, wood ashes, sometimes in stoves, rare Oct Diam i in
- 555 C byssisedus Gill (from the fibrils on the stem, byssus, fine linen thread, sedeo, to sit) a b c
 - P resupinate, then horizontal and reniform, villous, pale grev St small, white-villous G adnato-decurrent, salmon
 - On the ground, rotten wood, beech, rare Sept -Oct Diam # in

SERIES III DERMINI Fr

(From the membrane of the pileus, Gr derma, a skin)

Spores various shades of reddish-brown, brown, red, vellowish-brown or dull yellow Genera XXI - XXXI

XXI ACETABULARIA Mass

(From the cup-like volva, acctabulum, a vinegar-cup)

Val universal, forming a volva Hymenophore distinct from the fleshy stem Stem central, simple, volvate Gills adnexed Spores pallid-tawny or brownish

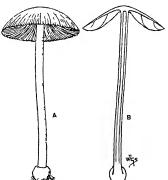


Fig 30 —Acetabularia acetabulosa Mass Natural size A, perfect plant B, plant in section

Acetabularia agrees in structure with Amanitopsis, Volvaria and Chitoma

Saccardo (Sylloge Fungorum, vol v p 761) makes Berkeley's Acetabularia analogous with Gillet's Locallina The two genera are quite distinct, Locallina is not represented in Britain

Locellina

Acetabularia

Pileus smooth, glabrous
Gills broadly adnate
Stem fibrilloso-annulate

Pileus sulcate, white-furfuraceous Gills adnexo-free

Stem simple

556 A acetabulosa Mass (from the cup-like volva, acctabulum, a vinegar-cup) a b

P convex, salmon, mid sienna-reddish, white-furfuraceous, marg striate, denticulate, splitting St hollow, whitish, white-meally above G adnead, subdistant, glandular, pale brownish-salmon with a lighter edge.

It the Thames at Millbank May $1\frac{3}{8} \times 2 \times \frac{1}{8}$ in The glands on the gills, as illustrated by Sowerby, may be existed a

XXII TOGARIA W G Sm

(I rom the annulus, like a cloak, well seen in the young state of 557, toga, a Roman garment)

Vil universal, manifest in the membranous annulus and in the

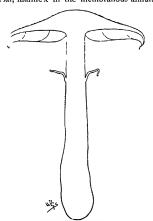


Fig 31 -Section of Togaria aurea W G Sm One quarter natural size

squamules, fibrillæ and flock of the pileus, the squamules, etc being sometimes appendiculate at the margin Hymenophore not

truly distinct from the fleshy stem, except in **564**, although in the majority of cases it is nearly so *Pileus* fleshy *Stem* central, fleshy, annulate *Gills* adnato-decurrent, adnate, adnexed, or roundedfree *Spores* ferruginous (Fig. 31)

All the species grow on the ground

Togaria agrees in nearly all points of structure and habit with

Lepiota, Annularia and Psalliota

In 564 the gills are normally rounded-free, and in several other species the gills are frequently adnexed In Lepiota one species—47—has adnate gills and several others have approximate gills process bave approximate gills Species 557—566

a Eudermina Spores ferruginous 557—564

b Phaota Sports fuscous-ferruginous

565, 566

a Eudermina

- 557 T aurea W G Sm, Agaricus aureus Mattusch (from its golden colour, aurum, gold) a b c
 - P convex, velvety, squamulose, marg partially appendiculate with V St solid, striate and scurfy below A 4 superior, large G adnato-decurrent to adnexo-free ochreous then sienna Flash whitish-sulphur above, golden-sienni below
- 558 T caperata W G Sm, Agaricus caperatus Pers (from the wrinkled pileus, capero, to wrinkle) a b c
 - P convex, white-floccose on a deep yellow or buff-tin ground, marg deeply winkled or lobed. St solid, white shided dull salmon white-squamulose above A A median somewhat large G adnate or adnexed, dull ochreous or clay-cinnamon, sometimes colour of iron-oxide.
 - Solitary Woods Aug -1)ec 4½ × 4½ × ½ in Sometimes there is an obscure volva Pale forms resemble 789
- 559 T terrigena W G Sm, Agaricus terrigenus Fr (from its habitat, terra, the earth, gigno, to bear) a
 - P convex, silky-fibrillose, yellowish, marg partially appendiculate with V St colour as P, clad with ferriginous-yellow warts A apical G adnate with a decurrent tooth, yellowish then brownish
 - Woods, damp places, old earthy stumps Aug –Nov $2\frac{9}{8} \times 2\frac{9}{8} \times \frac{7}{16}$ in Perhaps 559 is a form of this Small forms must not be confounded with 1085
- 560 T erebia W G Sm, Agaricus crehius Fr (Gr eribos dark) a b i P convex, at first viscid, dark ferriginous brown or umber, becoming paler, marg often streaky-wrinkled St hollow, smooth, pale salmon-brownish, darker at base and white above,

- white squamulose below A apical, membranous, white G adnate, sometimes with a decurrent tooth, somewhat pale livid-brown Flesh pale brownish
- Gregarious Taste fungoid, insipid, odour slight or obsolete Woods, shrubbenes, grassy places, under birches Aug -Oct 2 × 2½ × ½ in Not unlike some forms of 792 Must not be confounded with 69a
- 561 T ombrophila W G Sm, Agaricus ombrophilus Fr (Gr ombros, rain, philos, loving) a b
 - P convex, gibbous, smooth, clay-colour, sometimes shaded ferruginous, marg with traces of the white V St hollow, paler than P or almost white A distant, white G adnate with a tooth or adfixed, pallid brownish then ferruginous-brown
 - Grassy places after heavy rain Oct $2\frac{1}{5} \times 2\frac{1}{5} \times \frac{1}{16}$ in Var brunneola W (5 \times m (4garicus ombrophilus var brunneolus Fr) P brown $1\frac{1}{3} \times 1\frac{1}{9}$ in Var
- 562 T molliseorium W G Sm, Agaricus molliscorium Cooke & Mass (from the skin of the pileus, molliscorium, with a soft, leather-like skin) a b
 - P convex, smooth, polished, dry subumbonate, tawny yellow, mid ochreous or sienna St hollow, equal, pale ochreous, silky fibrillose, broken up into minute sq above A A deciduous, brownish G adnate or uncinate, crowded, ferruginous

Taste and odour none June $25 \times 24 \times \frac{1}{4}$ in

- 563 T togularis W G Sm, Agaricus togularis Bull (from the annulus, like a little cloak, togula) a b
 - P convex, pullid ochrous, mid sienna or umber St hollow, whitish, yellowish or brownish G adnate or adnexed, yellow then pullid ferruginous Flish colour of exterior
 - In troops Grassy woodlands, gaidens, wood yards, amongst chips rare May-Nov $2\frac{1}{4} \times 3\frac{1}{8} \times \gamma_0^4$ in
- 564 T blattaria W G Sm, Agaricus blattarius Fr (from the colour of the pileus, blatta, a cockroach) a
 - P flat, subumbonate, ferruginous, mid darker St fistulose, whitish, brownish at base A white G rounded-free or slightly adnexed, watery cinnamon
 - Gardens and cultivated places Autumn $1\frac{1}{8} \times 1\frac{1}{2} \times \frac{1}{8}$ in I ike an annulate Galera

b Phaota

- 565 T dura W G Sm, Agaricus durus Bolt (durus, hard) a b c P convexo-plane, kid-leather-like, becoming cracked, tawny, pale ochreous or almost white marg partially appendiculate with V St paler than P, sometimes with root-like fibres at base A ample, fugitive G adnate with a decurrent tooth, livid brown to deep ferruginous
 - Possibly poisonous Fields, gardens, uncommon May-Oct 23×34×3 in Sometimes gathered for 792

566 T preseox W G Sm, Agaricus pracox Pers (pracox, early)

P convex, obtuse, smooth, whitish or whitish-ochre St hoftow above, mealy-floccose, white, sometimes with root-like fibres at base A ample, fugitive, white G rounded-adnexed or subadnate, at length fuscous

Said to be edible Taste rank, odour strong, not unpleasant Gardens pastures, road sides common May-Oct 3 × 4 × \frac{1}{8} in Sometimes wholly whitish May not be distinct from last Sometimes gathered for 7092

566a T sphaleromorpha W G Sm, Agaricus sphaleromorphus Bull (from the difficulty of distinguishing this from the two last species, Gr sphaleros, delusive, morphe, form) a b

P globose, convex, plane, obtuse, even, smooth, expanded, white or pale buff to ochre St stuffed, then partially hollow, incrassate and villose below, when young clavate, silky, pale buff to yellowish A entire, median to distant, ample, membranous G arcuato-or adnato- to sinuato-decurrent, yellowish white, becoming ochre, ferruginous-tan or brownish

Leaf soil Oct $4\frac{1}{8} \times 3\frac{2}{8} \times \frac{1}{2}$ in Must not be confounded with 565 and 566

XXIII PLUTEOLUS Gill

(Diminutive of Plutius, Genus XIV)

Veil indicated by gluten, fibrillæ and meal Hymenophore distinct from the fleshy stem Pileus conical or campanulate then expanded,

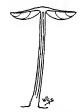


Fig 32 —Section of Pluteolus reticulatus Gill
One half natural size

slightly fleshy viscid, margin striate, at first straight and adpressed to the stem Stem fistulose, simple Spores ferruginous or saffron Gills rounded-free (Fig 32)

The species grow on dead wood, rotten sticks, etc

Pluteolus agrees in structure with Hiatula, Pluteus, and Pilosace
Species 567, 568

567. P reticulatus Gill (from the network of veins on the pileus, rete, a net) a b

VP expanded, subumbonate, violaceous, fuscous or greyish, mid faintly ochreous St fibrillose, whitish G dull cinnamon Spores dark ferruginous

Dead wood, rare Sept $1\frac{7}{8} \times 2\frac{1}{4} \times \frac{1}{8}$ in

568 P aleuriatus Karst (from the flour-dusted appearance of the stem, Gr aleuron, flour) a

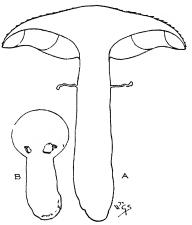
P convexo-plane, bluish-grey, rose-colour or tan, mid darker G saffron-ochraceous

Rotten sticks Oct I X I X 18 in

XXIV PHOLIOTA Quel

(From the scaly pileus, Gr pholis, a scale)

Veil partial in the form of an annulus, or universal as scales and gluten on the pileus and stem Hymnophore confluent and homogeneous with the fleshy stem Pileus fleshy, viscid, dry, naked or



1 ig 3, — I holiota special itis (iii One half natural 126 A pl int in section B young state

scaly St.m central, annulate Annulus persistent, membranous, spreading, not arachnoid or fibrillose Gills usually adnate, with or without a decurrent tooth, variously attached, at first pale or tawny, then usually becoming dark fuscous, but not the bright

ferruginous colour of *Continuarius Spores* sepia-brown, bright yellowish-brown, or light red (Fig. 33)

All the species except 596 and 597 grow on trees, stumps and branches

Pholiota agrees in structure and habit with Armillaria and Stropharia

Pholoda must not be confounded with Continuous, where all the species are terrestrial, have an arachnoid veil and spores the colour of iron-oxide Species 569—597

TRUNCIGENE Mostly cæspitose, growing on trunks and stumps

- a Ægeritina Pileus naked, not scaly, but here and there rimoso-rivulose Gills pallid, then rufescent, becoming fuscous 569-574
- b Squamosæ Pileus scaly, not hygrophanous Gills changing colour
 - Gills pallid, then fuscous, olivaceous, clay-coloured, not purely ferruginous 575—579
 Gills yellow, then purely ferruginous or tawny 580—586
- c Hygrophana Gills cinnamon, not at first light yellow Hygrophanous 587—595

Muscigen E Hygrophanous, resembling annilate Galeiu mostly growing on moss 596, 597

IRUNCIGENÆ

a Egentine

- 569 P radicosa Quel (from the rooting stem) a b c
 - P convexo-plane, viscid, pale tan-brownish, clouded darker St spongy-solid, enlarged below and fusiform rooting, whitishtan A distant, fugitive G adnato-toothed or rounded
 - Solitary or gregarious, rarely cospitose I aste pleasant or obsolite, odour strong, like prusse and or sweetish, not unpleasant Woods, about stumps, on wood, frequent Aug-Oct $4\frac{1}{2} \times 10\frac{1}{4} \times \frac{1}{6}$ in P some times 6 in in dam
- 570. P pudica Gill (from its modest colour, pudicus, modest) a b c P convex, moist, hygrophanous, rivuloso-wrinkled, tan, mid sienna St solid, firm, rigid, paler than P A persistent G adnato-rounded, colour as St Flesh pallid white
 - Single or cæspitose Odour strong, penetrating, disagrecable Stumps, elder, elm, rareli on lawns, downs times mistaken for 792.
- 571 P leochroma Sacc (from its hon-tawny colour, (ir lion, a hon, chroma, colour) a b
 - P convex, then depressed, mid yellowish-white or pale sienna, marg pale St solid, whitish above, brown below A per-

- sistent G adnato-rounded, dark cinnamon Flesh pale livid-brownish, darker in St
- $\,$ Cæspitose Said to be edible Stumps, elm, fir, larch July–Sept $\,$ 3½ \times 4½ \times ½ in $\,$ Perhaps a form of 570
- 572 P capistrata Sacc (from a fancied resemblance in the annulus to a halter, capistrum) a b
 - P flat, subviscid, tan, mid pale sienna marg rivuloso-winkled
 St stuffed, squamulose, tan-white A large, inrolled, persistent
 G decurrent or rounded, thin tan-white
 - Cæ-pitose Sud to be edible. Inste varying pleasant to unpleasant Sump. clim. tug $-\lambda$ ow. $4\times4\times8$ in. Intermediate forms occur between this and 670 and 571
- 573 P ægerita Quel (from its frequent habitat, poplar trunks, Gr auguros, the black poplar) a b
 - P convex, rivuloso-wrinkled, pale buff to bright full tawny \$\foating \text{stufted}, \text{ sometimes substriate from the decurrent base of \$G\$, tan-white, white-mealy above \$A\$ superior, swollen \$G\$ serrulate, adnate with a tooth, fuscous
 - Cæspitose Odour pleasant stum_j's, I ofulus fas iziata, willow, ash, elm July- $\sqrt[5]{v}$ $\sqrt[4]{4 \times 5\frac{1}{4} \times \frac{1}{2}}$ in The Troppini of Italy
- 574 P luxurians Gill (from its frequent luxuriant growth) a b
 - P flat silks, squamulose, sollowish-white then rufous St stuffed, subsquamulose, colour as P 1 apical, fugacious G adnate with a tooth, fuscous
 - Cospitose Stumps, elm, poplar, oak, ash July 3 x 2 f x 8 in

b Squamosæ

- 575 P comosa Quel (from the hairy scales of the pileus coma, a hair) a b
 - P convex obtuse, viscid, tawny so paler, marg appendiculate with V St solid, bulbous, fibrillose, brassy-white A superior, subjects tent G adnate or adnato-decurrent, fuscous
 - Subcæspitose Odour faint Stumps, beech, poplir, birch rare Oct-Nov 7 × 4½ × 1½ in
- 576 P heterochta Quel (from the curved stem, Gr heteros, other, kl no, to lean) a b c
 - P convex obtuse, viscid when old and wet, whitish yellowish or brownish, marg appendiculate with V 5/ solite bulbous, fibrillose, whitish-brown at base G adnate or tounded-adnexed Solitary Odour strong and pungent of horse radish Trunks, birch, popur, small examples on thips Sept.—Nov 5½ × ½× 1 m
- 577 P aurivella Quel (from a fancied resemblance in the pileus to a golden fleece aurum, gold, redus, fleece) a b c
 - P convex, subumbonate, sulphur or deep ferruginous yellow St stuffed, fibrillose, colour as P A superior G adnate with a tooth or sinuato-adnexed, brown
 - Cæspitose or solitary Odour faint Trunks, ash, willow, beech , uncommon Sept -Nov $4\S \times 4 \times \frac{1}{2}$ in

- 578 P squarrosa Quél (from the rough-scaly pileus, squarrosus, rough) a b c
 - P convex, gibbous, dry, ochreous-sienna, marg appendiculate with V St stuffed, attenuate downwards, brown-squarrose below A G adnate with a decurrent tooth, olivaceous-ferruginous Flesh light yellow
 - Cæspitose, sometimes in fuscicles of 50 or more strong and nauseous of putrid cheese or nome On or near stumps, beech, oak, ash, laburnum, acacar, apple, plum common July-Dec $3\frac{\pi}{4} \times 4\frac{\pi}{4} \times 1$ in Sometimes twice the size of type. Var verruculosa Gill P glutinous when wet, maple Var reflexa Gill P umbonate Var Mull(r) Gill small, wholly sulphur
- 579 P subsquarrosa Quél (from the pileus, less scaly than 578) a c P plane, viscid, brown, marg appendiculate with V Sr subsquarrose below A, vellow-ferruginous G admite with a decurrent tooth, or almost emarginato-free, pale brown pale ochreous-brownish
 - Subcæspitose Odour almost obsolete Trunks, fir, and on the ground Sept $2 \times 2\frac{5}{8} \times \frac{f_8}{16}$ in
- 579a P grandis Rea (grandis, large) b
 - P convex, then expanded, broadly gibbous, dry, fulvous-tawny, covered with small innate deeply tawny sq at the circ revolute at mid St solid, fusiform slightly squamulose and tawny below the distant, almost fugacious A, deeply striate above G broad, attenuate in front deeply sinuato-decurrent behind somewhat crowded, pallid, then fuscous Flesh light yellow, ferruginous in St
 - Cæspitose Taste and odour very pleasant Trunks, ash, oal Oct $9 \times 8\frac{1}{4} \times 2\frac{1}{4}$ in
- 580 P spectabilis Gill (spectabilis, notable) a b c
 - P convex, obtuse, dry, rich sienna-jellow St solid, squamulose or smooth, ventricose, rich vellow G adnate with a tooth or subdecurrent Flesh sulphur
 - Cospitose Taste, bitter aromatic Sumps, oik beech, hornbeam, hawthorn, frequent Aug-Dec 56×54×14 in Stem sometimes 9 in Resembles 1049 in appearance
- 581 P adiposa Quel (from the pileus, as if covered with fat) a b c P plane, subdepressed, very glutinous, sulphur se floccose, ferruginous mid deep sienna-yellow, marg appendiculate with V St squarrose, viscid, colour as P A small floccose G adnato-rounded
 - Cæspitose Trunks, beech, ash, plum, silver fir, birch, frequent Iuly-Oct 7 x 5 x ½ in
- 581a P lueifera Quél (from the flame-like colours /ux, light, fero, to carry) a
 - P fleshy, convex, almost plane becoming umbonate, viscid, covered at first with darker adpressed sc which soon disappear, yellow, or orange with sulphur marg St stuffed to hollow,

sometimes solid, equal, somewhat squamulose, becoming smooth, whitish above, brown below without and within A distant G emarginato-adfixed, narrow, crenulate, yellow-white, luminous yellow, then olive or ferruginous

Trunks, branches, straw, almost terrestrial Odour strong Autumn $2\frac{1}{2} \times 2 \times \frac{2}{3}$ in

582 P flammans Karst (from its fiery colours) a b c

P convex, subumbonate, yellow or orange, sc sulphur St squarrose, sulphur or yellow A superior G sulphur, then brown Flesh sulphur

Gregarious or in clusters Odour none Woods, pine, pine leaves, dead pine branches Julv-Oct $2 \times 2\frac{7}{6} \times \frac{5}{16}$ in Mycelium often deep orange

583 P Junonia Karst (from its beauty, belonging to Juno) a b P convex-plane, subumbonate, yellow to deep sienna-orange St even, solid, yellow above, sienna below A distant G adnate

Usually solitary 1 runks Oct $3\frac{1}{8} \times 3\frac{1}{2} \times \frac{4}{8}$ in Must not be confounded with 695

584 P tuberculosa Gill (from the bulbous base of the stem) $a \ b$ P convexo-plane, obtuse, tawny or pale sulphur, mid brown St hollow, subbulbous, attenuato-rooting, fibrilloso-scaly, light yellow or ochre A fugitive G adnate or emarginate, serrulate

Solitary or cæspitose Trunks, birch, sawdust Oct $2 \times 1\frac{5}{8} \times \frac{1}{4}$ in

- 585 P curvipes Quel (from the frequently curved stem, curva, a curve, pcs, a foot) a b c
 - P expanded, subumbonate, tawny or orange, marg at first appendiculate with white V Sr fistulose, fibrillose, light yellow A floccose, fugitive G adnate with a white edge Flsh light yellow

Gregatious, subcæ-pitose Taste somewhat pleasant insipid, not strongly scented Trunks, sawdust, deal boards in greenhouses Oct $2\frac{1}{2} \times 1\frac{7}{2} \times \frac{1}{2}$ in

- 586 P eruentata Sacc (from the blood-coloured scales of the pileus, cruentatus, blood-stained) a b
 - P convex, obtuse, yellow, sc crimson-brown St solid, attenuate-rooting subsquanulose below A, colour as P A fibrillose G adnate or emarginate, brown, somewhat olive Ftsh pale yellow

Taste insipid Trunks, oak , burn ground Aug-Sept $1\frac{3}{8} \times 1\frac{1}{2} \times \frac{1}{4}$ in

c Hygrophanæ

- 587 P Paxillus Gill (from its resemblance to 1181, Paxillus involutus Fr) a
 - P expanded, subumbonate, ochreous-buff, mid darker St solid, smooth, colour as P, brown at base A narrow, spreading G subdecurrent, crowded
 - Trunks Autumn 6 x 63 x 3 in Sometimes wholly cinnamon

- **588.** P dissimulans Sacc (from its appearing like, but differing from, **560**, *dissimulo*, to dissemble) a c
 - P convex, subumbonate, buff-brown, becoming whitish St fistulose with transverse dissepiments, attenuate upwards, white A fragile G adnexed or adnate with a tooth, clay-brown

Sticks, hawthorn, sloe Oct -Nov 13 × 17 × 18 in

589 P Cookei Sacc (after Dr M C Cooke) a b c

P convex, obtuse, viscid, dull yellowish, sc adpressed, family brownish St solid, whitish above, fibrillose and yellowish-brown at base A narrow G adnate

Damp places, amongst grass, stumps Sept -Oct 2½×2½×½ in Perhaps the same as 559

590 P sublutea Karst (subluteus, yellowish) a c

P flat, subumbonate, squamulose, dull brownish-yellow, sc darker St stuffed, smooth, attenuate upwards, paler than P A narrow, spreading G decurrent, crowded

Subcrespitose Grassy ground Oct 21 × 41 × 1 in

591 P confragosa Karst (confragosus, rough) a b

P convexo-plane, obtuse, densely furfuraceous, red, cinnamonrufous or umber, tawny when dry, flocci fugitive, white St hollow, shining pale warm-umber flocci fugitive G adnate or subdecurrent

Somewhat cæspitose Fallen elm Oct $1\frac{\pi}{6} \times 2 \times \hat{16}$ in Resembles 917 592 P mutabilis Quél (mutabilis, changeable) $a \ b \ c$

P convex, obtusely umbonate, cinnamon, pale when dry, or mid deep cinnamon, with marg straw colour, sometimes appendiculate with V St pale above, cinnamon below, subsquarrose below A A narrow, spreading, fugitive G adnato-decurrent, crowded

Sometimes eaten, taste of gingerbread Stumps, lime, ash, sawdust April-Dec 2 × 3\frac{3}{4} × \frac{1}{2} in

593 P marginata Quél (from the striate margin of the pileus) a b c P expanded, subumbonate, honey-colour, tan when dry St fistulose, fibrillose, paler than P A spreading, fugitive G adnate or somewhat rounded

Solitary, gregarious, cæspitose Woods fir, beech, pine, chips , frequent Sept-Dec $1\frac{1}{8} \times 2 \times \frac{1}{8}$ in

594 P mustelina Quel (from its colour, mustella, a weasel) a P convex, dry, yellow or reddish St fistulose, whitish A superior, reflexed G adnate

Solitary, subgregarious Woods, pine, stumps Sept § × \$ × 18 in

595 P unicolor Gill (from its being wholly of one colour) a c Bay-brown then ochreous

P convex, subumbonate St fistulose, somewhat smooth G adnexed, adnate or subdecurrent

Subgregarious, subcæspitose Trunks, branches, larch Sept – Nov $1\frac{1}{2} \times 2\frac{1}{8} \times \frac{1}{8}$ in

MUSCIGENÆ

596 P pumila Gill (pumilus, diminutive) a b c

P hemispherical, smooth, ochreous, marg substriate St fistulose, smooth, colour as P or paler, base often darker A floccose G adnate with a tooth, subdistant, pallidbrownish

Solitary, gregatious Moss, walls, earth, sticks, sawdust, firs, common Aug-lan $\frac{3}{4}\times 2\frac{3}{8}\times \frac{1}{8}$ in

597 P mycenoides Quél (from its resemblance in stature to a Myαna) a b c

P hemispherical, ferruginous, tawny pale or medium, marg stricte St fistulose, smooth, colour as P A persistent, white G adnate with a decurrent tooth

Amongst moss in damp places, lawns Scpt –Oct $\frac{1}{2} \times 1_8^7 \times \frac{1}{32}$ in Often accompanied by 283

XXV INOCYBE Quél

(From the fibrous pileus, Gr 15, 1105, a fibre, kube, a head)

Viil concrete with the cuticle of the pileus, fibrillose or somewhat arachnoid, often appendiculate at the margin of the pileus and sometimes forming an indefinite annulus Hymenophore confluent

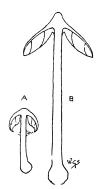


Fig 34—A, section of *Inocybe scabra* Gill B ditto *I fastigiata* Quél One half natural size

and homogeneous with the fleshy stem *Pileus* squarrose, fibrillose or velvety, in a few species becoming smooth or viscid *Stem* central, scaly, fibrillose or smooth, simple or imperfectly squarroso-annulate

Gills usually sinuate, sometimes adnexed, adnate or decurrent, adhering to the hymenophore, except 602 and 621, at first pale, changing colour, but not to fuscous-ferruginous Spores often angular, pale dull tan, brownish or brown (Fig 34)

All the species, except 644, grow on the ground, they are somewhat small, none are edible, and the majority have a some-

what nauseous odour

Inocybe as defined by Fries (Hymenomycetes Europæi, p 226) has no genus corresponding wholly with it in structure amongst the white, pink, purple- or black-spored groups Certain of the fibrouspleated species of Trucholoma, Entoloma and Strophavia might, however, be separated as analogues Inocybe was formerly included in the next genus, Hebeloma Species 598—646

Mr George Massee, in his monograph of the genus (Annals of Botany, XVIII (1904), p 459), has rearranged the species in two groups, viz. I Spores rough, and II Spores smooth, these groups he has again divided into—A Cystidia present, and B Cystidia absent, with minor distinctions as to a whitish or coloured stem and brownish or olive-tinted gills

- a Squarrose Pileus squarrose, somewhat fuscous Stem scaly, smooth above, same colour as pileus, solid except 204 598—607
- b Lacerce Pileus torn into scales or fibres, not split into cracks Stem fibrillose, paler than the pileus 608—619
- c Rimosa Pileus longitudinally fibrous, soon cracked, partially adpressed-scaly Stem fibrillose, whitish, slightly tinged with the colour of the pileus Many become yellow when old 620—634
- d Velutinue Pileus not cracked, the cuttele fibrilloso woven, becoming even or adpressedly-scaly Stem shining, smooth, whitish, mealy above 635—642
- e Viscidæ Pileus viscid, even

643 - 646

a Squarrosæ

- 598 I hystrix Karst (from the scaliness, hystrix, a poicupine) a b c
 - P plane, subgibbous, mouse-colour to brown St attenuate downwards, sc fuscous, brownish or mouse-colour G adnate, fuscous

Woods, beech Oct $3 \times 2\frac{1}{8} \times \frac{3}{8}$ in Resembling a small 578 in appearance

- 599 I relieina Quel (from the recurved floccose scales of the pileus, reclinus, curled backwards) a c
 - P expanded, obtuse, fuliginous or rufescent livid-brown slightly attenuate downwards, floccoso-scaly, colour as P G adnexed, olivaceous
 - Odour almost obsolete Woods, fir, marshy places, amongst Sphagnum July-Oct $2\frac{7}{8} \times 3\frac{1}{8} \times \frac{7}{8}$ in

- 599a I mimica Mass (from its resemblance to 26 as figured in Cooke's Illustrations, p 941)
 - P campanulate, obtusely umbonate, fibrillose, yellow-brown, covered with large adpressed fibrous slightly darker sc St solid, equal, fibrillose, paler than P G deeply sinuate, broad, yellow-brown

133

Woods Autumn 3 × 3 × ¾ m

faintly rose when cut

- 600 I calamistrata Gill (from the curled scales of the pileus, calamister, a curling iron) a b ε
 - P campanulate, fuscous-scaly on a tan ground St squarrose, somewhat bulbous, at first pale, then as P, tinged with dull blue at base G adnexed, ferruginous with a white edge Flesh becoming red when cut
 - Sometimes subcæspitosc Odour strong, not unpleasant Woods, pine, by piths and ditch sides, rare Aug-Oct $2 \times 2\frac{1}{4} \times \frac{3}{16}$ in
- 601 I hirsuta Quel (from the bristly pileus, hirsutus, bristly) a b P campanulate, acutely umbonate, mid fuscous or greenish, marg pile tan St fibrillose, pale tan above, greenish at bise G adnexo-ascending, umber with a white edge Flesh
 - Odour funter than 600 Woods, beech, damp places, pastures , rare Oct $1\frac{1}{5} \times 2\frac{1}{4} \times \frac{1}{16}$ in
- 602 I lanuginosa Quel (from the woolly pileus, lanuginosus, woolly) a b ε
 - P hemispherico-convex, obtuse, umber then yellow St squamuloso-fibrillose, whitish-fuscous G separating-free, denticulate, pallid clay-colour
- 602a I calospora Quel in Brcs (from the beautiful spores, Gr kalos, beautiful) a
 - P convex or campanulate, then expanded and umbonate, fibrillose with darker sq at mid, yellowish-brown or tawnygrey, edge paler St pale then reddish, or as P G sinuatofree, tawny-ochre or brownish

Woods, shady places Autumn 1 x 23 x 1 in

- 608 I duleamara Quel (from the taste—sweet, becoming bitter, dulus, sweet, amarus, bitter) a ε
 - P campanulato-convex, umbonate, olivaceo-fuscous St squamuloso-fibrillose below, paler than P G adnexed, olivaceous Gregarious Woods, plantations, fir, mixed Aug –Oct 18 x 12 x ½ in
- 604 I plumosa Quél (from the downy tufts on the pileus, plumosus, feathery) a b
 - P hemispherico-convex with squarrose flocci in erect fascicles, mouse-colour or shaded rufous St stuffed or hollow, floccoso-

scaly, paler than P or smoky G subadnate, pallid mouse-colour

Odour faint, not unpleasant Woods, pine, moist places, rare Aug $1\frac{n}{8} \times 2\frac{n}{8} \times \frac{1}{8}$ in The colours are not unlike those of Series II, $H_{\overline{J}}$ forhodu

605 I eineinnata Quel (from the curved scales of the pileus, a curl) a

P convexo-plane, usually subumbonate, villoso-scaly, fuscous St fibrilloso-scaly, fuscous-violaceous or lavender above, brownish below G adnexed, fuscous-violaceous or lavender

Subgregarious Odour none Woods, beech Autumn I \times 2 \times $\frac{1}{8}$ in Compare 618 and 641a

606 I hæmaeta Sacc (from the change of colour to blood-red when broken, Gr haimaktos, mingled with blood) a b

P plano-convex, floccoso-fibrillose, umber, mid dark, marg pallid St scaly-fibrillose, whitish above, dull verdigris below inside and out G adnate, clay-umber Flesh crimson in P, greenish-blue below

Subcæspitose Lawns Aug -Oct 12 × 2 × 1 in

607 I fasciata Sacc (from its growing in bundles fasciatus, bound together in bundles) a b

P convex, obscurely acuto-umbonate, minutely brown-squarrososcaly on a pale ground St solid, attenuate below, pallid above, vinous within and without at base G adnato-sinuate, crowded, thin, soft, pallid

Densely cæspitose Taste and odour none Grassy places $3 \times 3\frac{1}{4} \times \frac{1}{16}$ in

b Lacera

- 608 I pyriodora Quél (from its odour of pears, pyrus, a pear, odor, a smell) a b c
 - P convex, subumbonate, fuscous to tan-ochreous St solid, whitish G adnato-emarginate, fuscous, often olive-shaded, edge whitish Flesh becoming pale reddish
 - Taste none, odour strong, sweet, pleasant of pears, decaying pears, violets, cinnamon, of Muscari racemorum Woods, gardens May-Dec 24 × 34 × 4π in Sometimes P and St whitish tan, G tan rufescent
- **609 I incarnata** Bres (from the flesh-coloured pileus, *incarnatus*) a b
 - P expanded, broadly umbonate, sometimes tinged with pale orange-scarlet, crimson or purple, marg appendiculate with V St solid, base enlarged, colour as P G sinuate, whitish to olive-brownish, often spotted orange, scarlet or crimson, or wholly rufescent, edge crenulate, white Hesh pale orange or pale purple-hyacinth
 - Odour strong of meal or pears Red when bruised or broken Red when bruised or broken Closely allied to 608

- 609a I adequata Sacc (from its claim to equal specific rank with 610)
 - P campanulate, then expanded, squarrose and fibrous-scaly, yellow and red-brown or pale, somewhat vinous-umber with darker umber sc St whitish or reddish-fibrous, or as P G adnexed, thick, somewhat distant, pale greyish-white or yellowish-umber, becoming greyish brown, always with a white edge

Odour none Woods Summer and autumn $3\frac{1}{2} \times 4\frac{1}{4} \times \frac{9}{16}$ in Allied to 610

610 I seabra Gill (scaber, rough) a b c

P convex, subgibbous, pale fuliginous, tan or umber St solid, whitish G adnexed, often separating from stem, dull whitish-brown Flesh white

Suspected poisonous Woods, plantations, fir, mixed, frequent June–Oct $1\frac{3}{4} \times 1\frac{3}{4} \times \frac{1}{4}$ in Var firma Mass fuscous tan with fuscous scales

- 611 I maritima Karst (from its being first found on the sea-shore)
 - P hygrophanous, expanded, obtuse or umbonate, fuscous or mouse-colour, hoary when dry St solid, paler than P G adnexo-rounded, or somewhat sinuate, grey, then ferruginous

Sometimes cæspitose Odour faint Woods, pine, sandy places, damp and by sea shores Sept –Oct $\mathbf{1}_4^2 \times \mathbf{1}_8 \times \mathbf{3}_8^3$ in

612 I lacera Quel (from the scaly-torn pileus, lacerus, torn) a c

P expanded, subumbonate, mouse-colour, pale and vellow when old St stuffed, paler than P, white and mealy G attenuato-adneved, mouse-colour Fhsh reddish

Commonly gregarious Woods, pine, mixed July-Oct $1\frac{1}{2} \times 1\frac{3}{4} \times \frac{3}{18}$ in

613 I flocculosa Sacc (from the small flocci on the pileus) a b c

P convex, umbonate, rufescent-sienna St paler than P, solid, stuffed or hollow G adnato-ascending, colour as St, then chocolate with a white edge

Odour of new meal, but nauseous Amongst grass, woods Scpt -Oct $1 \times 2\frac{1}{4} \times \frac{1}{8}$ in Compare 602 and 612

- 614 I Bongardii Karst (after H G Bongard, a Russian botanist)
 α b ε
 - P campanulate, obtuse, greatly to slightly scaly, often cracking between the sc and showing the flesh, fuscous, pile when dry St solid, subbulbous, lighter than P, somcumes dark below G adnexed, ventricose, reddish, cinnamon or umber, edge white Flish reddish

Usually solitary Odour pleasant of ripe pears or bergamot Sandy ground, sand hills, pine woods, pastures May-Oct 2½ × 4 × ¾ in

- 615 I mutica Karst (from the at first obtuse pileus, muticus, curtailed) a b
 - P obtuso-convex, plane, then subdepressed, whitish, tan or straw St hollow, attenuate downwards, colour as P G adnate, white or tan, then subfuscous

Woods, shady places, roadsides Sept -Oct 21 x 2 x 1 in

- 616 I carpta Quél (from the torn woolly pileus, carpo, to tear)
 a b c
 - P flat or depressed, dark fuscous or umber St hollow, attenuate downwards, paler than P G adfixed to adnate, ventricose, brown-fuscous with a pale edge

Taste bitterish sweet Woods Aug $I_8^1 \times I_4^8 \times I_8^1$ in

- 617 I deglubens Gill (from the fibrils of the pileus which peel off, declubens, peeling off) a b
 - P expanded, obtusely umbonate, date-brown-rufescent, becoming yellowish St solid, colour as P above, paler and yellowish below G adnate, ventricose, grey then cinnamon

Woods, nine, moist places, rare Aug -Sept 18 x 21 x 1 in

- 617a I cervicolor Quel (from its dark tawny colour, as of a deer, cerus, a stag) a
 - P campanulate, covered with brown recurved fibrils St firm, whitish, fibrillose, with brown recurved filaments throughout its length G emarginate, ventricose, distant, rusty brown, marg denticulate, whitish Flish white, tinged purplish when cut
 - Odour strong, unpleasant $\;$ Amongst grass, woods $\;$ Autumn $\;$ $\frac{7}{6}\times 3\times \frac{1}{6}$ ın Compare 614
- 618 I obscura Gill (from the dark scales of the pileus, obscurus, dark) a b c
 - P expanded, umbonate, purplish-brown or shaded lavender or faint crimson St stuffed, lilac or purplish above, yellow-brownish below, lilac within G sinuato-adnexed, olivaceous, then brown
 - Subcæspitose Odour strong, somewhat bitter Amongst pines, damp places, woods, rare July-Nov 2½ × 1½ × ½ in Var ru/a Sacc, P brownish rufous, G volet
- 619 I Rennyı Sacc (after James Renny, mycologist) a b
 - P hemispherical, fawn-colour, mid brown St equal, whitish at top and bottom, yellow-brown in mid G adnexo-ascending with a tooth, whitish-brown then cinnamon
 - Woods, fir Nov $1\frac{1}{6} \times 2\frac{6}{8} \times \frac{1}{6}$ in The var major Mass is illustrated in the Public Gallery, the type is little more than half this size

c Rimosæ

- 620 I schista Sacc (from the clefts in the pileus, Gr schistos, a cleft), a b
 - P campanulate, obtuse, shining bay-brown, mid sienna St solid, twisted, splitting, paler than P G adnato-ascending with a tooth, separating, sienna-cinnamon, edge serrate, white

Taste pleasant, somewhat insipid Lawns May 28 × 3 × 1 in

- 621 I fibrosa Gill (from the fibrous pileus) a b c
 - P campanulato-expanded, umbonate, mid foxy-red, lighter at marg St solid, splitting, pale ochreous G adnexo-sinuate, separating, foxy
 - Odour fetid Woods, fir May-Sept 57 × 41 × 7 in
- 621a I proximella Karst (from its superficial resemblance to 628) a P conico-convex, then expanded and umbonate, even, then longitudinally fibrosely cracked, pallid, mid and um rusty-brown or bay St stuffed, sometimes wavy, subfibrillose, pallid G adnate, crowded, broad, ventricose, pallid, tan, then brown Flesh white
 - Woods Sept $1\frac{3}{8} \times 2\frac{4}{4} \times \frac{1}{4}$ in Distinguished by its ventricose gills
- 622 I perlata Sacc (from the pileus, perlatus, very broad) a P expanded, broadly umbonate, straw-ochreous, mid blackfuscous, marg pale St solid, straw-pallid, black-fuscous at base G adnexed, subrounded or slightly sinuate, umber Under trees, hornbeam Aug 4\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$
- 623 I phæocephala Sacc (from the dusky pileus, Gr phaios, dusky, kephali, a head) a
 - P conico-campanulate, umbonate, bav-brown, fuliginous or rufous St solid, subbulbous, pale brown above, white below G adnexo-free, olive-brown
 - Woods, pine, mixed Oct $3\frac{3}{4} \times 4\frac{3}{8} \times \frac{3}{8}$ in Perhaps not belonging to Inacybe
- 624 I fastiguata Quel (from the pileus, pointed like a gable, fastigum) a b c
 P conico-campanulate, acutely umbonate, dull yellow-brownish
 - P conico-campanulate, acutely umbonate, dull yellow-brownish
 St solid, paler than P G adnexo-iree, crowded, olive-brown
 Gregarious, sometimes crespitos.
 Unods, grassy places, uncommon
 June-Oct 38 x 5 x 1/8 in
- 625 I hiulea Gill (from the furrow-like cracks of the pileus, Gr hio, to gape) α ε
 - P expanded, umbonate, fuscous, olivaceous or ochreous stuffed, whitish G adnexo-free, subdistant, olive-brown
 - Woods, pine uncommon Aug –Nov $2\frac{1}{4} \times 2\frac{4}{7} \times \frac{5}{16}$ in Young examples sometimes wholly white Kutescent when bruised
- 626 I Curreyi Sacc (after Frederick Currey, mycologist) a b
 P expanded, dull yellowish-brown St solid, pale rufescentbrown G free, olive-brownish Flesh pale olive-brown
 Odour none Woods Aug 2½ x 3⅓ x ¾ n
- 627 I rimosa Quél (from the cracked pileus, rima, a crack) a b c P campanulate, subumbonate or obtuse, rufescent- or olive-brown, mid darker, cracks yellowish St solid, slightly marginato-bulbous, pallid above, yellowish and rufescent below G attenuato-adnexed, olivaceous-brown or fuscous
 - Subgregarious Odour earthy Woods and open places amongst trees June–Oct $2\frac{7}{8} \times 3\frac{1}{4} \times \frac{5}{18}$ in

- 627a I subrimosa Sacc (from the slightly cracked pileus, rima, a crack) a
 - P conico-campanulate, then expanded, prominently umbonate, even, smooth, longitudinally fibrillose, at length cracked, pale ochre, brown or pallid ferrugineo-ochreous, mid brown St solid, equal, shining, base somewhat maiginately bulbous, white-pruinose G attenuate behind, adnexed or free, slightly ventricose, whitish clay-colour, then ferruginous

Taste insipid , odour none Grassy places, gardens Sept $I_2^1 \times I_4^3 \times I_8^3$ in

- 628 I asterospora Quel (from the star-shaped spores aster, a star) a b
 - P expanded, umbonate, shining, sometimes viscid, sooty-brown, brown-striate St marginato-bulbous whitish, often reddish at base G emarginato-adnexed to adnate, cinnamon
 - Taste none , odour mouldy or none Woods and open places amongst trees Aug –Oct $2\frac{7}{8} \times 3\frac{3}{8} \times 1^{\frac{6}{5}}$ in
- 628a I brunnea Quel (from its brown colour) a
 - P campanulate, umbonate, fibrilloso-silkv, then cracketl, chestnut-brown St stuffed, thickned below, fibrilloso-strate, light brown, apex white-pruinose G emarginate, broadest in front, ivory then umber, edge white, indented

Amongst grass, near pines Oct 13 × 17 × 1 in

- 629 I eutheles Quel (from the well-formed umbo, Gr εμ, well, thele, a teat) a b c
 - P expanded, umbonate, fawn-colour, with darker strix St solid, subbulbous, whitish above, brownish below G adnate, subattenuate, tan- or olive-brownish
 - Taste not unpleasant, odour of new meal, but disagreeable or none Amongst fir leaves, woods Aug –Oct $2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{4}$ in
- **680 I margarispora** Sacc (from the pearl-like spore. Gr margarites, a pearl) a
 - P expanded, broadly umbonate, fawn-colour or olive tan-brown St solid, whitish or shaded tan-olive, darker below G ascending, adnexo-adnate, faintly rufescent-pallid

On the ground Oct 2 x 32 x 1 in

- 680a I prætervisa Quél in Bres (from the fact that it had been previously confused with 624, præter, before, video, to see) a P conico-campanulate, then expanded, umbonate, fibrilloso-virgate, slightly viscid, fawn St solid, bulbous, pubescent, white then pale straw G attenuate behind, adnexed, white, then fawn with a white edge Flesh white
 - Taste mild, odour somewhat earthy Distinguished by its visced pleus its white or straw-coloured stem Related to 624 and 627, but distinct in its white or straw-coloured stem

- 630b I Bucknallii Mass (after John Bucknall, mycologist) a
 - P campanulato-convex, fibrillose, mid subsquamose, brownish St fibrillose, brownish G adnexed, thick, subdistant, rusty-brown, edge minutely fimbriate

139

- Under bushes Autumn $\frac{5}{8} \times 1\frac{1}{2} \times \frac{1}{16}$ in Distinguished by the large size of the basidia, spores and periphyses
- 630c I duriuscula Rea (from its firm substance) a
 - P fleshy, campanulate, expanso-gibbous, floccose, soon longitudinally fibrillose, tawny-ochreous, mid paler, marg at length revolute St solid, firm, apex and base slightly enlarged, striate, white G sinuato-adnate, decurrent as ribs on apex of St, somewhat crowded, white, then brown Flash white

Open places in woods Sept 23 -23 × 34 × 8 in

- 631 I destricta Quél (from the fibres of the pileus stripping off, distringo, to strip off) a b c
 - P flat, umbonate, whitish to vinous or rich sienna-brown, fibres stripping off and often showing white cracks St solid, sometimes subbulbous, light or dark rufescent or whitish above or below G uncinato-adnate, grey-brown or olive shaded Flesh rufescent
 - Odour unpleasant Woods, pine, oak July-Oct $2\frac{1}{2} \times 2\frac{1}{6} \times \frac{1}{4}$ in Sometimes 4 inches or more high
- 632 I perbrevis Gill (from the comparatively short stem perbrevis, very short) a b
 - P expanded undulate, umbonate, dry, silky, fibrillose, tawny or rufous, becoming yellowish St stuffed, attenuate downwards, colour 15 P G uncinato-adnexed or sinuate, subdistant, tawny to cinnumon

Woods, shady places Autumn 2 x 11 x 12 in

- 633 I descissa Quel (from the split pileus, scissus split) a b c
 - P campanulate, umbonate, whitish to pallid fuscous or ochieoussienna St hollow or solid, white or pallid, darker below G adnexo-free, fuscous
 - Suspected poisonous Woods, pine, rare Sept Nov $1\frac{1}{8} \times 1\frac{3}{4} \times \frac{1}{8}$ in Nar auricoma Gill smaller, P golden fibrillose Somewhat resembling 640, but differing in colour of P and absence of odour
- 633a I Godeyi Gill (after Dr Godey, French hotanist) a
 - P campanulate, obtusely umbonate, silky, fibrillose, rimose, whitish, then tinged rosy, sometimes rosy and ochreous St equal, subbulbous, colour of P, apex white-prunose G adnexo-free, narrowed behind whitish, then dusky cinnamon with an olive tinge, edge minutely flocculose, white Autumn 14 × 23 × $\frac{1}{2}$ in Rosy-red and ochreous rosy when bruised
- 634 I Trinii (after Carl Bernard Trinius, Russian botanist) a b P convex, obtuse, whitish-rufescent, tawny or pale brown-reddish St stuffed, colour as P, or paler G rounded-adnexed,

ventricose, cinnamon with a white slightly jagged edge Flesh pale salmon

Odour strong of clove pinks, evanescent Grassy places, woods Aug – Sept $\frac{3}{4} \times I_{\overline{4}}^2 \times I_{\overline{1}}^2$ in Sometimes $I_{\overline{2}} \times I_{\overline{2}}^1$ in

d Velutinæ

- 635 I sambueina Quél (from its being first noted under elder, sambueus) a
 - P convex, obtuse, often repand, whitish St solid, striate, colour as P G adnexed, colour as P or pale tan-brownish

- 636 I emariata Karst (from the woven-hairy pileus, casariatus, covered with hair) a b c
 - P expanded, subumbonate, dull tawny St solid, pale brownishochreous G adnexo-adnate, dull whitish to brown

Gregarious, subcaspitose Odour disagreeable Under beeches Sept –Oct $2\frac{1}{8} \times 1\frac{7}{8} \times \frac{5}{16}$ in

- 637 I lucifuga Gill (from its habit, apparently shunning light, lux, light, fugio, to flee) a b c
 - P plane, subumbonate, brownish-olivaceous or fawn St solid, paler than P, or pallid G adnexed, yellowish or olivaceous, then dark olive
 - Odour strong, pleasant or unpleasant, somewhat of radish Woods, pine, frequent Sept-Oct $1\frac{1}{8} \times 2\frac{3}{4} \times \frac{1}{8}$ in
- 638 I sindonia Karst (from the woven surface of the pileus, Gr, sindon, muslin) a b c
 - P convex, gibbous or subumbonate, whitish or faintly ochrcous, marg when young fibrillose with V St hollow, whitish G attenuato-adnexed, whitish-fuscous

Mixed woods, damp shady places, rare Sept-Oct $2\frac{1}{3} \times 2\frac{1}{2} \times \frac{2}{1}$ in Resembling 640, but differing in the hollow stem and absence of odour

639 I Clarkii Sacc (after I Aubrey Clark) a

P campanulate, obtuse, whitish St stuffed to solid, flocculose, colour as P G ascending, adnexed, whitish-fuscous with a white edge

On the ground, shady places in woods Oct $1 \times 1\frac{3}{4} \times \frac{1}{16}$ in

639a I corydalina Quél (from its odour of Corydalis cava) a

P campanulate, then expanded, fibrillose, white, the prominent um glaucous-green St fragile, pruinose, white, then fuscous G adnato-emarginate, narrow, brown, with a white edge Flesh white, sometimes tinged violet

Under oaks Sept 2 × 2g × g in

640 I geophylla Quél (from the earthy colour of the gills, Gr. ge, the earth, phullon, a leaf) a b c

P expanded, umbonate, never truly squamulose, white, lilac or pale or dark bright purplish-blue, mid sometimes brown,

or whole P brown St stuffed, sometimes with slight trace of A, white, or as P G adnexo-free, separating from hymenophore, umber

Odour usually faint, sometimes very strong and unplea-ant Woods under trees, hedges \u00edutum $_8 \times 2 \times \frac{1}{2}r$ in \u00b8 Var Interita W G Sm, Agaricus geophyllus \u00e3 sweeth, \u00e3ar Interitus Stev \u00dar returning yellow or white, sometimes white scaly There is a large form, twice the size of type or larger

64i I seabella Quel (from the roughish pileus, seaber, rough) a b P expanded, umbonate, scaly-torn, fuscous St white, or as P G adnato-adnexed, yellow-brown or fuscous

Gregarious Odour none Woods, amongst short grass Sept-Nov $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{3}$ in

641a I fulvella Bres (fulrus, yellowish-brown)

P subhygrophanous, conico campanulate, then expanded and umbonate, floccoscly silky, yellowish then brownish-olive, mid tawny St stuffed, narrowed downwards, glabrous, lilac, then rufescent, apex white-pruinose G subdistant, ventricose, rounded behind and nearly free pale lilac, then ochraceous-cinnamon, edge fimbriate Flish yellow, rufescent-lilac at apix of stem

Shady places Autumn \(\frac{1}{2} \times 1\frac{1}{6} \times \frac{1}{16} \times 1\frac{1}{16} \times 1\frac{1}{16

642 I violaceofusca Sacc (from the dusky-violet colour of the stem and gills) a

P expanded, obtusely subumbonate, squamose, umber marg fimbrate with V St solid, pale violaceous above, pallid below G adnate or emarginate pale dull violaceous then umber Subcaspitose Amongst grass in open places. Vutumn $2\frac{1}{2} \times 1\frac{3}{4} \times \frac{1}{4}$ in

e Viscidæ

- 643 I treehispora Karst (from the rough spores Gr trachus, rough, spora, a seed) a b c
 - P expanded umbonate, whitish with mid tawny St stuffed, white with a mass of white mivelium at the base G cmarginate, or attenuato-adnexed, pinkish-grey, then brown

Woods, damp places amongst ferns | July-Oct | $\mathbf{1}_4^2 \times \mathbf{2}_5 \times \frac{1}{8}$ in | Sometimes facial to pheasants

- 644 I vatricosa Karst (from the stem, twisted below vatricosus, with bad feet) a c
 - P planε, broadlý subumbonate, whitish or shaded light-yellowish St hollow colour as P, white-pulverulent G adneved, broadly emarginate, ochreous-fuscous
 - Odour none Woods, pine, bare places, on dead stumps, twigs, chips Sept 12 × 25 × 73 in
- **645 I White:** Sace (after Dr **F** Buchanan White, botanist) a c P hemispherico-campanulate, obtuse, tawny, marg whitish St solid, white, becoming tawny G adnexed, tawny

Woods, pine Oct 11 × 11 × 1 in Allied to 640

646 I. Tricholoma Sacc (from its resemblance to species of Tricholoma) a b c

P convexo-plane, subdepressed, Ivory-whitish, shaded pale buff, marg fringed with V St stuffed, fibroso-scaly above, colour as P, or faintly shaded salmon G adnato-decurrent, crowded, pale clay-fuscous or faintly olive-shaded

Woods, mixed Nov $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ in

XXVI HEBELOMA Quel

(From the fringe-like veil, seen in certain young examples, Gr hebe, youth, loma, a fringe)

Veil partial—in 648, 654a and 655 forming an imperfect annulus

or universal, indicated by gluten, squamules, fibrillæ or silkiness

Hymenophore confluent and homogeneous with the fitshy stem

Pileus fleshy, cutcle continuous, smooth, damp, subvisid or

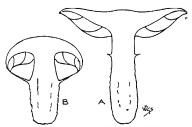


Fig 35—A section of Hebeloma fastibile Quel B, ditto half grown example showing veil One half natural size

glutinous, margin at first incurved, sometimes silky from veil Stem central, simple, fibrous-coated, submealy at the apex, simple or rarely imperfectly annulate Gtlls sinuato-adnate or adnexed, at first pallid-whitish or clay-colour, then darker Spores dull tan or somewhat clay-colour or brown (Fig. 35)

All the species, except **649**, grow on the ground, they are gregarious and strongly scented, some are poisonous, none are edible, they appear early in autumn and last till late in the season

Hibiloma corresponds with the non-fibrillose species of Tricholoma, Entoloma and Hypholoma Species 647—669

a Industatæ Pileus furnished with a cortina from the veil, by which the margin is often superficially silky Stem usually white-prunate or white-mealy above or minutely whitescaly
647—657

b Denudatæ Pileus smooth, cortina obsolete 658-667

c Pusilla Pileus scarcely an inch broad, stature that of Naucoria, but without the cartilaginous bark 668, 669

a Industata

- 647 H mussivum Sacc (from its uncertain position amongst the *Industatæ*, mussivus, undecided) α
 - P plane, obtuse or subumbonate, pale primrose-jellowish, mid sienna St stuffed or hollow above, fibrillose, light yellow G emarginate or somewhat rounded adnate, light yellow then subferruginous Flesh becoming yellow

Odour faint, not unpleasant Woods, pine Oct $4\frac{3}{4} \times 5\frac{1}{4} \times 1$ in

647a H sinuosum Quel (from the frequently irregular pileus) a b

P fleshy, convex, expanded, obtuse, even, almost glabrous,
viscid, then dry, yellowish-red to pale buff, sometimes whitish,
marg wavy St stuffed to hollow, equal, fibrilloso-striate, at
first flocculoso-squamulose above, soft, biscuit G slightly
adnexed, broadly emarginate to emarginato-free, dry, crowded,
dull white to brownish-salmon and ferruginous Flish white

Odour faint, pleasant Woods Aug 38 × 5 × 7 in

- 648 H fastibile Quel (from its disagreeable odour) a b c
 - P convexo-plane, viscid in wet weather, pale vellowish-tan, mid darker, sometimes sienna St solid, fibrillose, scaly or white silky, sometimes with an imperfect silky-floccose A G emarginate, subdistant, dull whitish-clay-colour or tan-brownish
 - Subcrespitose, often in large dense rings. Poisonous. Taste like radishes, but disagrecable and bitter, odour disagrecable, fettid. Woods, mixed pastures, near trees and bushes, sometimes on mushroom beds common luly—Oct. 4 × 2½ × ½ in. Often mistaken for the mushroom and sold in markets with mushrooms. Often slug eaten. Var. digans. Mass., P. purple brown.
- 649 H glutinosum Sacc (from the glutinous pileus) a b c
 - P plane, obtuse, yellow-white or pale buff with mid rich siennabuff, white-squamulose St stuffed, attenuate upwards, white, dull faint ochreous below, clad with fugitive white sc G sinuato-adnate, light yellowish then clay-cinnamon Flish pale reddish in stem
 - Taste and odour mild, not unpleasant of radish Woods, among-leaves and branches, oak, beech, frequent Sept-Dec $3\frac{1}{2} \times 3\frac{1}{8} \times \frac{1}{2}$ in Sometimes one third the size of type Compare 678
- 650 H testaceum Quel (from the colour of the pileus , $\it testa$, a brick) $a\ b\ c$
 - P convex, obtuse or subumbonate, crimson-sienna through red and yellowish to tan St hollow above, fibrillose, colour as P or paler G attenuato-sinuate or almost free, clay-colour then subferruginous or crimson-sienna
 - Taste disagreeable, sickly nauseous, odour faint of radish or none Woods, fir, pastures, frequent Sept-Nov $2\frac{3}{4} \times 3\frac{1}{4} \times \frac{1}{16}$ in

651. H firmum Gill (from its firm substance) a

P flat, subumbonate, subsquamulose, yellowish-brown or reddish, mid darker St solid, brownish, darker below, white-squamulose G adnexed or adnate, rounded, ferruginous, edge white, serrulate

Odour faint Woods, fir Feb -Oct 23 × 3 × 3 in

652 H claviceps Quel (from its resemblance, when young, to a nail, clavus, a nail, caput, the head) a

P hemispherical, gibbous-expanded, viscid, whitish or faintly yellowish, mid sienna, marg fibrillose with V St stuffed, whitish, fuscous below G emarginate, pallid brown

Woods, mixed, uncommon Sept-Oct 13 × 31 × 1 in

658 H punetatum Quel (from the viscid-dotted pileus punetus, a point) a

P plano-gibbous, pale sienna-brown, whitish at marg St hollow, silky-fibrillose, faintly brownish G sinuato-adnate, brownish

Gregarious, in troops Odour faint, not unpleasant Woods, pine, uncommon Sept 2 × 3½ × ½ in

654 H versipelle Gill (from its changeable appearance, τerto, to turn, tellis, skin) a b c

P flat, silky-agglutinate, sienna-reddish or dull tan St hollow, tan-white, fuscous below G rounded, serrulate, whitish-flesh-colour

Subcæspitose Odour faint not unpleasant, but sometimes strong, fctid oily or like bugs Grassy places, amongst fit leaves Aug 2½ × 3 × ½ in

654a H strophosum Sacc (from a fancied resemblance in the annulus to a sword-belt, Gr *strophos*) b

P convex, plane, slightly subumbonate, somewhat viscid, bay or vinous sienna, clouded deep claret-brown mrg white silky S hollow, equil, silky, whitish, shaded brown or redsalmon within and without near base A superior, silkywhite G adneso-free, crowded, ventricose, cream to dull flesh-colour and dull cinnamon Flesh white

On the ground Oct 11 × 12 × 11 in

655 H mesophæum Quel (from the dusky centre of the pileus, Gr mesos, the middle, phaios, dusky) a b c

P plane, subgibbous, pale yellowish or pale pinkish-brown St fistulose, fibrillose, whitish or faintly ochrous, ferruginous below, sometimes with an imperfect fugitive A G rounded or emarginate, pale clay-ferriginous

In troops, gregarious Odour faint Woods, pine , uncommon Sept -Oct $1\frac{3}{4} \times 2\frac{1}{4} \times \frac{1}{16}$ in

- **656** H subcollariatum Sacc (from the gills which form an imperfect collar at the apex of the stem) a b
 - P convex, subviscid, pallid, mid fuscous, marg at first white and scaly St stuffed or fistulose, brown at base G sinuato-adnate, clay-colour with white edge
 - Subcæspitose Taste and odour strong and rank, like 1527 On the ground May-Oct 1½ × 2½ × 3% in
- 657 H senescens Sacc (from the hoary margin of the pileus and the white apex of the stem, senseco, to grow old) a
 - P obtuse or subdepressed, ochreous-tawny St solid, squamulose, white above, fuscous below G rounded-adnexed, crowded, cinnamon

Odour acrid Amongst firs Sept 4 × 33 × 3 in

b Denudata

- 658 H sinapizans Gill (from its odour, sinapi, mustard) a b
 P expanded, undulate, subdepressed, subviscid, pale claycolour, mid yellowish St somewhat solid, whitish G
 emarginate, crowded, unspotted, not distilling drops, claycunnamon
 - Solitary Odour strong, usually of radish Under trees, fields, woods, uncommon Sept-Oct $5\mbox{3}\times 2\mbox{2}\mbox{3}\times 2\mbox{1}\mbox{2}\mbox{1}\times 1\mbox{2}\mbox{1}\mbox{1}$ n D sometimes 9 in in diam Compar, with 473
- 659 H crustuliniforme Quel (from the shape of the pileus, crustulum, a small pie) a b c
 - P expanded, obtuse or subumbonate, subviscid, whitish, mid pale reddish-ochreous St whitish G adnexed, crowded, distilling drops, clay-colour or brown
 - Sometimes forming large rings but fetid or like l'unel flowers soil, common Aug Nov 4½ × 2½ × 1 in Variable in size Often mistaken for the horse mushroom, 789
- 659a H subsaponaceum Karst (from the somewhat soapy odour, sapo, soap)
 - P fleshy, obtuse, pallid, darker when dry St equal, somewhat way), adpressedly fibrillose, apex somewhat mealy G adnate
 - Taste bitter, odour strong of soap Woods, mived, fir Aug 114x1x18 in
- 660 H elatum Gill (clatus, tall) a b
 - P expanded, subviscid, tan, mid faintly ochreous, slightly reddish or shaded brown St stuffed, twisted, whitish or faintly ochreous G adnato-rounded with a tooth, pale cinnamon, becoming cinnamon, sometimes with a white edge
 - Odour very strong of radish Woods, pine, commons, under oaks Sept-Nov 2 × 4½ × ½ in

- 661 H longieaudum Quél (from the long stem, longus, long, cauda, a tail) a b
 - P expanded, sometimes umbonate, viscid, clay-colour, mid darker St stuffed, subbulbous, fibrous-elastic, white above, tawny below within and without G emarginate, crowded, serrulate, cinnamon
 - Odour faint, not unpleasant Woods Sept –Nov $5 \times 7\frac{3}{4} \times \frac{6}{5}$ in Var radicatum Sacc St fusiform rooting
- 662 H lugens Gill (from its sombre colour, lugeo, to mourn) a P convexo-plane, subviscid, brown or yellowish St solid, shining, fibrilloso-striate, whitish G attenuato-adnexed or almost free, ferruginous

Odour strong, not radish like Under beeches 23 × 23 × 3 in

- 663 H truncatum Sacc (from the short stem, truncus, maimed) a b
 - P obtuse, repand, irregular, ochreous-rufous or tan-ochreous, faintly shaded rose St solid, pruinate, white G emarginate or emarginato-free, watery-ferruginous
 - Subcæspitose Odour faint, not unpleasant Grassy places in woods Sept $3\frac{1}{4} \times 2\frac{1}{8} \times \frac{3}{4}$ in
- 664 H nudipes Karst (from the naked stem, nudus, naked, pes, a foot) a b
 - P expanded, subumbonate, viscid, paie clav or ochreous-white, marg thin, exceeding G St solid, smooth, whitish G emarginate, sienna-tan

Odour faint, not unpleasant, somewhat of meal Woods Oct 2 x 3 x 1 in

- 665 H isehnostylum Sacc (from the thin stem, Gr ischnos, thin, stulos, a pillar) a b
 - P expanded, broadly subumbonate, subviscid, whitish mid pallid St naked, colour as P G adnate, clay colour
 - Odour none, or faint of meadow swect Fields, plantations, woods, amongst grass Sept -Oct 13 × 2 × 1/8 in
- 666 H nauseosum Sacc (nauseosus, rank-smelling) a b
 - P convex, gibbous, subviscid, ochreous-white, mid sienna-tan St solid, silky-fibrillose, white-mealy above, base at length black G sinuate, broad, subdistant, salmon then ferruginous, sometimes with a purplish shade

Odour very strong and offensive Woods, mixed Oct $2\frac{1}{4} \times 3\frac{1}{4} \times \frac{1}{3}$ in

- 667 H capniocephalum Gill (from the sooty-coloured pileus, Gr kapnos, smoke, kephale, the head) a ε
 - P convexo-plane, viscid, pale yellowish, mid sienna or sooty, marg at length black St stuffed, attenuate below, rufescent, fibrilloso-striate on a whitish ground G emarginate, subcrowded, brown-ferruginous

Woods, mixed, elm-stumps Oct -Nov 31 × 21 × 1 in

c Pusillæ

- 668 H magnimamma Karst (from the large umbo, magnus, large, mamma, breast) a
 - P plane, ochreous-red, then pale yellowish St stuffed or fistulose, smooth, naked, colour as P G adnate, subsinuate, ferruginous

Amongst grass, under apple trees Sept I × I + x 1 in

- 669 H petiginosum Quel (from the scurfy-hoary pileus, petigo, scab) a b c
 - P convex, subumbonate, hoary-silky, brown or shaded ochreous, rufescent, slate or purplish St stuffed, rufescent, paler above, white-pulverulent G slightly adnexed, or free, crowded, olivaceous-brown or shaded rufescent

Woods, beech Oct I X I X X 1 in

XXVII FLAMMULA Quel

(From the frequent flame-like colours, flamma, a flame)

Vil fibrillose, fugitive or obsolete Hymenophore confluent and homogeneous with the fleshy stem Pilus fleshy, margin at first involute Stem central, subannulate or simple, fleshy-fibrous, not

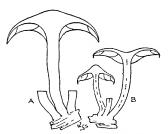


Fig. 36—A section of *Flammula gymnopodia* Quel B ditto *F. flavida* Quel One third natural size

mealy above Gills decurrent or adnate, without a sinus, commonly entire and of one colour, at first whitish, clay-colour or yellowish, then coloured by the spores Spores mostly pure ferruginous, sometimes fuscous-ferruginous or tawny-ochraceous (Fig 36)

The species usually grow on wood, some grow on the ground, many are bright yellow, orange or orange-brown in colour Some agree in structure with Clitocybe and Clitopilus, those growing on wood approach Pholiota, and agree with Armillaria and in part with Hebeloma and Stropharia Species 670—702

- a Gymnotæ Pileus dry, most frequently squamulose Val none, except 678 and 676 Spores ferruginous, fuscousferruginous in 675 670—677
- b Lubricae Pileus covered with a continuous, subseparable, smooth, viscid pellicle Veil fibrillose Gills usually not truly sinuate Spores ferruginous, fuscous-ferruginous in 685, not tawny Gregarious, terrestrial, rarely growing on wood Allies of Hebeloma 678—685
- c Udæ Pıleus with a continuous, non-separable cuticle, slightly viscid in rainy weather Veil appendiculate at the margin of the pileus, or forming an imperfect fibrillose annulus Spores not tawny or ochraceous Cæspitose Growing on wood Allies of Pholota 686—694
- d Sapineae Pileus scarcely pelliculose, flesh scissile or torn above into scales, not viscid Vil fibrilloso-adpressed to the stem, not appendiculate at the margin of the pileus Gills light yellow or yellow, then tawny Subcaspitose On pines, or terrestrial amongst pine-branches 695—698
- c Servellæ Pileus dry, or at first viscid, slightly silky Veil fibrillose 699—702

a Gymnotæ

670 F gymnopodia Quel (from the naked stem, Gr gumnos, naked, ρουs, a foot) α

P convex, gibbous, squamulose, ochrous-stenna, mid darker St solid, paler than P G deeply decurrent, crowded, colour as P, cumamon or orange

Cæspitose Pine sawdust, on the ground Autumn $4\frac{3}{4} \times 3 \times \frac{1}{2}$ in

671 F Aldridgei Mass (after Miss Emily Aldridge) a

P infundibuliform, velvety, rich orange mid sienna St hollow, colour as P, black below G deeply decurrent, rich orange

Gregarious Woods, amongst moss Sept 21 x 21 x 11 in

672 F vinosa Gill (from its colour vinum, wine) a c

P infundibuliform, flocculose, umber, pink-shaded St solid, attenuate upwards, flocculose, paler than P G decurrent, colour as St, faintly pinkish at base

On the ground , rare Oct $2\frac{3}{4} \times 1\frac{1}{2} \times \frac{5}{16}$ in

673 F PURPURATA Sacc (from its purple colour) a b
P expanded, subumbonate, minutely flocculose, purple to
brownish-purple St solid, pallid above, purplish-brown below
A superior, red-fibrillose G adnate, lemon-yellow then
bright ferruginous, purple-brown where touched

Taste very bitter Tree fern stems May $2 \times 1\frac{3}{8} \times \frac{3}{18}$ in

- 674 F floceifera Sacc (from the white fibrils on the pileus, flocus, a flock of wool, fero, to carry) a
 - P expanded, tawny St hollow, attenuate downwards, white-silky, pale ochreous below G adnate, wrinkled, ferruginous with a white edge

Cæspitose Lime stumps Oct $2 \times 1\frac{1}{2} \times \frac{1}{4}$ in

- 675 F decipiens Sacc (from its likeness to 685, decipio, to deceive)
 - P convex, subumbonate, sienna mid almost white St stuffed, attenuate downwards, striate, tawny G decurrent, crowded, sienna Flesh yellowish
 - Subfasciculate $\;$ Burnt gorse stumps , in company with 685 $\;$ June $\;$ 1½ \times 14 \times 4 in
- 676 F elitopila Sacc (from the depressed pileus Gr klitos, a declivity) a b
 - P expanded, dry, pale purplish-brown, becoming whitish St hollow, subventricose, attenuate downwards, slightly fibrillose towards base, at first white then paler than P A imperfect, fibrillose G sinuato-adnexed, crowded, colour as St

Amongst firs Nov $2\frac{1}{8} \times 2\frac{1}{4} \times \frac{3}{8}$ in

- 677 F nitens Sacc (from the shining pileus, nitens, shining) a b P expanded, obtuse, dry, silky, deep purple-brown or deep bright chestnut St solid, fibrillose, reddish-salmon G adnate, crowded, clay-umber Fish salmon-white
 - Cæspitose Taste and odour none On the ground Aug-Sept $1\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{8}$ in

b Lubrica

678 F lenta (1111 (lintus, tough) a b c

- P plane, obtuse, whitish, clay-colour to lemon-white V white, stretching from marg to S in infancy S substuffed, paler than P, pule rufous below, white-scaly G adnate, sinuate or decurrent, ferruginous Flsh white to pale sulphur, brownish at base of St
- Sometimes exespitose Woods, mixed, beech, oak, fir, on wood, leaves, on the ground, meadows Sept -Dec $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$ in See 649
- 679 F lubrica Quel (from the slimy pileus, lubricus, slimy) a
 - P flat, obtuse or depressed, mid deep sienna, marg orange yellow St solid, laxly fib illose, white above, fuscous below G adnate or with a decurrent tooth, clay-colour

Almost scentless On or near trunks Autumn 21 × 23 × 15 in

- 680 F lupina Karst (from the colour of the pileus, lupus, a wolf) α ε
 - P obtuse, then plano-depressed, tawny St stuffed, whitish above, ferruginous and adpressed-fibrillose below G adnato-decurrent, light yellowish Flesh white
 - Taste bitter, odour mild to strong and pungent Pastures Aug-Oct $1\frac{7}{8} \times 2\frac{1}{4} \times \frac{1}{4}$ in

- 681 F. mixta Karst (from its position amongst its allies, mixtus, mixed) a b c
 - P plane, subdepressed, tan or shaded-ochreous, mid slightly sienna St white-ochreous above, laxly fibrillose and rufous below, minutely fibrillose-annulate G adnate or adnato-decurrent, separating from stem, clay-colour

Subcæspitose Taste disagreeable, odour slight or none Woods, pine, mixed, rare Aug-Nov $2\frac{1}{8} \times 3 \times \frac{7}{16}$ in

- 682 F juneina Sacc (from its habitat juncus, a rush) a b c
 - P convex, sulphur-ochreous mid brown St stuffed, attenuate downwards, subfibrillose, colour as P G adnate, crowded, very thin, red-brown Flash sulphur-whitish or livid-brownish

Taste nauseous, disagreeable, somewhat bitter Dead bulrushes Nov $I_8^{\rm f} \times 3_4^{\rm f} \times I_{\rm fc}^{\rm f}$ in A close ally of 681

- 683 F gummosa Quél (from the viscid-gummy pileus) a b c
 - P flat, obtuse or depressed, light yellowish or olive-shaded, marg appendiculate with V St silky-fibrillose, paler than P, ferruginous below G adnate, crowded, cinnamon
 - Cæspitose Suspected poisonous 12ste not bitter, odour none ()n and about stumps Oct –Dec $2\frac{1}{2} \times 2\frac{7}{8} \times \frac{7}{16}$ in
- 684 F spumosa Karst (from the frothy-viscid pileus, spuma froth)

 a b c
 - P flat, obtuse or depressed, light yellowish or olive-shaded, mid sienna, or whitish with mid sulphur and yellow, marg appendiculate with V St silky-fibrillose, paler than P, ferruginous below within and without A slight, fibrillose, evanescent G adnate, crowded, pale olive-brown to cinnamon
 - Solitary, gregarious or subcæspitose, sometimes in rings alaste not bitter, odour none Woods, fir, stumps, sawdust Sept-Dec $\mathbf{2_8} \times \mathbf{2_6^7} \times \mathbf{5_6^7}$ in
- 685 F carbonaria Quel (from its habitat carbo, charcoal) a b c
 P plane, sometimes depressed, tawny
 brownish-white above, brown below
 C adnate, fuscous, claycolour Flish brownish-white
 Spores fuscous-ferrugmous

c Uda

686 F filia Mass (filia, a daughter, derivation obscure) a b P expanded, subumbonate, buff, mid sienna, marg white-zoned with V St stuffed, fibrilloso-striate, rooting, partially annulate, whitish above, buff or salmon-buff below G sinuato-decurrent, tan-buff or olive-shaded

Odour none Woods, logs, on the ground Oct 4 x 6 x 2 in

- **687 F fusus** Gill (from the spindle-shaped stem, *fusus*, a spindle) a P plane, depressed, whitish-brown, mid sienna St stuffed whitish above, pale brown below G subdecurrent, ferruginous
 - Solitary, gregarious, sometimes exspitose Taste mild Woods, stumps, on the ground Sept-Nov 4 ×2½ × § in Var superba Mass, bright deep orange, 6 bright yellow
- 688 F astragalina Quél (from its colour, Gr astragalinos, a goldfinch) a b
 - P expanded, blood-saffron, mid almost vermilion, marg yellow, with fibrillose sulphur-white V when young SP hollow, saffron, base darker G sinuato-adnate, white, sulphur, then yellowish-brown or olive-shaded PlesP saffron
 - Faste and odour bitter, nauseous, as in 69 Stumps, pine, fir Aug –Oct $1\frac{\pi}{8} \times 3\frac{1}{2} \times \frac{7}{4}$ in Sometimes turns black when cut or bruised
- 688a F rubicundula Sacc (from the vinous stains, rubicundulus, somewhat reddish) $a\ b$
 - P fleshy, convex, plane, viscid and innato-fibrillose, then smooth, yellow, becoming vinous-shaded, marg paler St solid, whitish then red shaded, white-mealy above G sinuato-adnate to adnato-decurrent, crowded, light ochre then ferruginous edges reddening with age Flish bright yellow, then lighter
 - Taste acrid odour none Woods, under scrub oak July Sept $3 \times 4\frac{1}{4} \times x_1^p$ in Allied to 688
- 689 F alnieola Quel (from its frequent habitat, alnus, alder)
 a b c
 - P flat, sulphur-yellow mid sienna, marg clouded sulphurgreenish St attenuato-rooting, sulphur-yellow above, sienna below, sometimes with an imperfect fibrillose A G adnate with a small tooth, bright ferruginous Flesh sulphur-yellow Spores umber
 - Usually fa-ciculate laste and odour strong, dry insipid, bitter or actid. On or near stumps, alder, willow, oak, thorn, birch, sallow, rare Sept -Oct $2\frac{1}{4} \times 4\frac{1}{4} \times \frac{1}{4}$ in
- 690 F flavida Quel (flavus, light yellow) a b c
 - P expanded, mid darker yellow St colour as P, ferruginous at base A slight, fibrillose, fugitive G adnate, tawnyferruginous Flish light-yellowish
- 691 F inaurata Sacc (from the colour, mauro, to gild) a b c P expanded, sulphur-ochreous, marg appendiculate with V St lemon-white, ferruginous within at base V slight, fibrillose, fugitive G adnate with a tooth, pale yellowish clay-colour,
 - then vinous-clay

 Single or exspitose Tasteless or insipid Willows Nov 11 × 12 × 3 in

- 692 F conissans Gill (from its abundant dust-like spores, Gr konts, dust) a b c
 - P flat, subdepressed, light yellowish-tan or pale bronzy-ochre St attenuate downwards, lighter than P, ferruginous below, base white-villous G adnate with a tooth, crowded, fuscous-ferruginous Flesh white
 - Densely crespitose Taste and odour none or acid Woods, willows Oct-Nov $2\frac{1}{2} \times 4 \times \frac{1}{4}$ in Often passed over as 826
- 698 F inopus Karst (from its fibrillose stem, Gr 15, 1105, a fibre, pous, a foot) a b c
 - P expanded, obtuse, pale yellowish-tan or sulphur, mid sienna St fistulose, attenuato-rooting, pallid above, sienna-brown below within and without, sometimes with a fibrillose A when young G adnate, yellowish-white, pale olive-brown or sulphur-greenish, sometimes fuscous Fiesh paler than P
 - Fasciculate Woods, stumps, fir, larch, rooting amongst pine leaves, on the ground , rare Nernal and Aug-Dee $3\times 8\frac{1}{2}\times \chi_n^2$ in Must not be confounded with 824
- 694 F apierea Gill (from its taste, Gr apikres, not bitter) a P expanded, pale ochreous-tan, mid sienna St hollow, colour as P, fibrillose, ferruginous below G adnate or adnatodecurrent, ferruginous
 - Subcaspitose Odour mild Woods, pine, trunks Sept –Oct $4\frac{1}{2} \times 3\frac{1}{4} \times \frac{7}{16}$ in

d Sapınıæ

- 695 F hybrida Gill (from its hybrid characters) a b c
 - P flat, obtuse or subdepressed, tawny-buff, orange or sienna St attenuate upwards, tan-brownish, brownish below G adnate, tawny or rufous, unspotted Flish yellowish or brownish
 - Subcæspitose or in troops Fir, stumps, branches, under beeches, on saw dust and wood , rare Aug –Dec $2\frac{1}{5} \times 2\frac{1}{5} \times \frac{1}{4}$ in
- 696 F sapinea Quél (from its growing on pine-wood sapinus, a pine) a b c
 - P flat, golden-tawny or orange-vermilion, mid darker, marg appendiculate with white V in young examples St sulcate, orange or fuscous-white above, white or brown below A fibrillose, fugitive G adnate, colour as P or tawny-cinnamon
 - Single or cæspitose Taste unpleasant, bitter , odour strong, not unpleasant Fir stumps, branches, sawdust, wood, in and near woods, sometimes on the ground, under beeches and larches Aug –Jan $2_8 \times 3_2^1 \times \frac{1}{4}$ in Var terratirs Sacc , fusiform rooting
- 697 F liquiritiæ Quél (from its taste of liquorice) a c
 - P flat, subumbonate, bay-brown or orange-tawny, mid darker St hollow, attenuate upwards, striate, tawny or ferruginous G adnate or sinuate, golden or tawny
 - Gregations or cæspitose Taste sweet, odour acid Firs Oct $I_g^2 \times 2_g^7 \times 2_g^7$ in

698 F pierea (Gr pikros, bitter) a b c

P convex, obtuse, rufous, traces of white V at marg in young examples St fistulose, umber, darker at base, when young wholly white-pulverulent G adnato-ascending or decurrent, ferruginous

153

Cæspitose Pine stumps, old deal boards, rare Oct -Dec 21×48×1 in

e Sericellæ

- 699 F FILICEA Sacc (from its habitat, tree-fern stems, filix, a fern) a b c
 - P flat, subumbonate, golden-yellow, appendiculate with V St stuffed or hollow, fibrillose, colour as P, ferruginous below V annulate, fibrillose, fugacious, reddish G adnate, tawn;
- Tree ferns in greenhouses Spring and summer $I_8^7 \times I_4^3 \times I_8^1$ in
- 700 F ochrochlora Karst (from the colour of the pileus Gr ochros, yellow, chloros, green) a b
 - P plane, subumbonate, subviscid, pale dull olive-ochre, minutely white-squamulose St fistulose, paler than P, ferruginous at base, white-squamose V slight, seen in young examples G adnate, olivaceous, then olive-brown
 - Cespitose Old trunks, furze roots, hazel sticks Aug -\ov 2\frac{1}{8} \times 2\frac{3}{4} \times \frac{1}{4} in
- 701 F helomorpha Quel (from its resemblance to a nail Gr helos, a nail, morphi, form) a c
 - P convex, gibbous or obtusely umbonate, viscid, white or claywhite St solid, smooth, tan-white G plano-decuirent, clay-white Spores pale brown
 - Scattered Wood, for Nov # x 18 x 1 in
- 702 F seamba Sacc (from the frequently curved stem, Gr skambos, bow-legged) a b
 - P plane, Subdepressed, viscid in wet weather, whitish or faintly ochreous St stuffed, flocculose or mealy, colour as P base sometimes faintly rufescent G adnate, light clay-yellowish Flash brownish
 - Gregarious Suspected poisonous Odour strong like 1527 Woods, pine, rotten wood, larch, on the ground , uncommon Sept –Oct $1\frac{\pi}{8} \times 1\frac{\pi}{8} \times \frac{1}{8}$ in

XXVIII NAUCORIA Quel

(From the almost obsolete veil, naucum, a trifle)

Verl squamulose, fugacious or obsolete Hymenophore confluent with, but heterogeneous from the cartilaginous stem Pileus more or less fleshy, convex, conical or convexo-plane, becoming flat,

naked, flocculose, squamulose, silky or atomate, margin at first incurved, not usually striate Stem normally central, cartilaginous, fistulose or spongy-stuffed, simple or imperfectly annulate Gills free or adnate, not decurrent Spores ferruginous (Fig. 37)

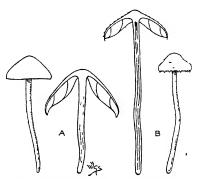


Fig 37 -4, Naucoria Cucumis Gill B \ porriginosa Karst Entire and in section one-half natural size

The species grow on the ground or are epiphytal, sometimes rooting, they are mostly small in size and brown in colour

Naucoria corresponds in structure with Collibia, Leptonia, and partially with Psilocibe and Panaolus

thany with Fstroty of and Fanceouts Specie	5 103140
a Gymnotæ Pileus smooth Veil obsolcte, except 7	
Spores ferruginous, not becoming fuscous-f	crruginous,
except 712	
Gills usually free or slightly adnexed	703716
Pileus convexo-plane Gills usually adnate	717 -721
Pileus campanulate, then expanded, except 722	and 723
Gills usually adnate	722-728
b Phæotæ Pileus naked Veil potential, but rarel	
whom and the form of a femousing cost	

	except 112	
	Gills usually free or slightly adnexed	703716
	Pileus convexo-plane Gills usually adnate	717 -721
	Pileus campanulate, then expanded, except 72	22 and 723
	Gills usually adnate	722-728
5	Phæotæ Pileus naked Veil potential, but rare	ely manifest,
	when visible, in the form of a fugacious co and spotes fuscous-ferruginous	itina Gills
	Growing in fields and on plains, except 730	729—734
	Growing in moist uncultivated woody places	735—738
	Lepidotæ Pileus flocculose or squamulose le Spores ferruginous, except 744	Veil manifest
	Pileus with separating, superficial squamules	739, 740
	Pileus with innate squamules	741—744
	Pileus without scales, silky or atomate	745, 746

a Gymnotæ

703 N lugubris Sacc (from its sombre colours, lugeo, to mourn) a P expanded, gibbous or subumbonate, sometimes glutinous,

ochreous-tan to ferruginous St fusiform-rooting, whitish above, ferruginous below G ferruginous

Often crespitose Hountainous fir woods Autumn 2 × 3% × % in Kesembling 229

704 N festiva Bres (fistivus, handsome) a b

P expanded, umbonate, glutinous, brownish-olive, whitish when dry St attenuate downwards, buff-white G ventricose, crowded, salmon-ferruginous

Woods, amongst dead lewes and gress Sept 18 x 4 x 18 in

705 N obtusa Sacc (from the obtuse pileus) a b

P campanulate, sienna-reddish, becoming pale , marg substriate S' paler than P V obsolete G adnato-ascending, edge serrulate, colour as P or St

On the ground Autumn $1\frac{1}{4} \times 2\frac{1}{2} \times \frac{3}{16}$ in

706 N subglobosa Sacc (from the shape of the pileus) a c

P subviscid, yellowish or pule brassy-yellow St striate, paler than P G ascending, ventricose, ochreous flesh-colour Spore pule pallid

On the ground Autumn $1 \times 2\frac{1}{8} \times \frac{1}{8}$ in

707 N hamadryas Sacc (from the habitat, Gr hamadruas, a woodnymph) a b

P hygrophanous, expanded, gibbous or umbonate, bay-brown-ferrugnous beconing buff or ochreous-trin. SI shining silky-fibrillose, whitish-tan, with slight A low down in some young examples G sinuato-adnexed, crowded, edge croded, ferruginous

Woods, on the ground Nov $2\frac{1}{8} \times 3\frac{1}{4} \times \frac{1}{4}$ in

708 N eidaris Sacc (from a fancicd resemblance in the pileus to a tiara. Gr kidaris) a

P campanulate, clay-cunnumon to tan St attenuate downwards, colour as P above, deep sienna-blackish below G adnexo-ascending, honey-colour

Odour none Woods, pine Nov $2\frac{1}{8} \times 3\frac{1}{8} \times \frac{3}{16}$ in

709 N Cueumis (rill (from its frequent odour of cucumber, Cucumis) a b c

P campanulate, deep chestnut-umber, marg tan-buff, or wholly tan-buff St attenuate downwards, bay or rich purple-brown G adnexo-ascending, or strongly sinuate, ventricose, tan-buff Flesh purple-brown

Odour strong, rank and penetrating of stale or rotten fish, sometimes of cucumber or a combination of fish and cucumber as in the odour of the smelt Woods, fir, grassy places, gardens, sawdust, fragments of wood, frequent Sept-Nov $2\frac{1}{2} \times 2\frac{3}{8} \times \gamma_8^2$ in See 534

- 710 N ECHINOSPORA Sacc (from the spinulose spores, echinus, a hedgehog) a b c
 - P flat, subumbonate, moist hygrophanous, slightly furfuraceous, buff, then pale, marg substrate St brownish-salmon, paler above, rufescent below, white-floculose G sinuate, subdistant, ochre, olive-shaded

Greenhouses Aug $\frac{1}{2} \times \frac{7}{8} \times \frac{1}{16}$ in

- 711 N anguinea Sacc (from the stem, spotted like a snake, anguis)
 - P expanded, gibbous, ochreous to tan marg white-zoned with patches of V St attenuate upwards, tan above, bay-brown below, white-fibrillose with V G adnexo-ascending, pale ferruginous Ft brownish

Odour none On the ground May-Nov 21 × 31 × 31 in

- 712 N centuncula Gill (from the change of colour in the pileus, cento, patchwork) a
 - P plane, often excentric, fuscous-olive to light ochreous-greenish or ashy St attenuate upwards, ashy-light-yellowish G adnate, thick, colour as St Spores ochraceous

Gregarious or cæspitose Rotten wood, beech, rare Oct 1 x 1 g x g in

- 718 N horizontalis Quel (from the partially horizontal stem) a b c Watery-cinnamon or rufescent
 - P convexo-plane, obtuse, subevecntric, splitting St curved G rounded-free, broad

In troops Branches, logs, felled trees, elm, rare Dec 4 x 1 x 1 m

- 714 N rimulineola Sacc (from its growing in small cracks of bark rimula, a small crack, incolo, to inhabit) a c
 - P hemispherical, umbilicate, plicate, subexcentric, deep cinnamon St curved, colour as P G broad, crenulate, whitish-cinnamon Spores cinnamon

Twigs, branches, elm, pear Oct -Dec $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{1}$ in

- 715 N semiflexa Sacc (from the slightly curved stem, semi, half,
 - ficeto, to bend) a

 P convex, subeventric, chestnut St tan G adnexed, distant, tawny

On the ground, on branches Oct $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{16}$ in

- 716 N rubricata Sacc (from the white pileus tinged with red, rubrico, to colour red) a
 - P expanded St tan G adnexed, whitish to brownish Spores pale

Twigs, bramble Autumn 1 x 1 x 1 x 1 in

717 N abstrusa Sacc (from its secluded habitat, abstrusus, hidden) a P viscid, ferruginous clay-colour, mid brown St lustrous, colour as P, darker at base G crowded, cinnamon Flesh pallid ferruginous

On the ground, woods, sawdust Oct $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{8}$ in

718 N innocua Sacc (innocuus, harmless) a

P striate, pale ochreous-rufous to rufous, pale when dry St tan-flesh-colour, white-fibrillose, base woolly G light yellow-ochreous Spores rubiginous

Damp places Autumn 11 × 11 × 1 in

719 N cerodes Quel (from its waxy appearance, Gr keros, wax)

P depressed, striate, watery-cinnamon to tan St pallid above, brown below G adnate or adnexed, cinnamon

Gregarious Woods, amongst moss, on the ground, on burnt earth May-pept 1 $\frac{2}{3} \times 1\frac{4}{3} \times \frac{1}{3}$ in

720 N melinoides Quél (from its resemblance to honey in colour, Gr mel, honey, etdos, appearance) a b c

P obtuse, striate, shining, ochreous to sienna-ochreous St paler than P, whitish at top and bottom G crowded, somewhat tawny

Lawns, pastures, roadsides June-Nov 13 × 13 × 15 in

721 N pussola Gill (from its small size, pussus, a little boy) a P subviscid, shining, yellow, tawny or lemon St subviscid, lemon G crowded, watery-cinnamon

On the ground, amongst moss, grass Autumn 1 × 11 × 12 × 13 in

722 N nucea Sacc (from the shape and colour, nux, a nut) a

P globose, lobed, umbilicate, pale chestnut, marg strongly incurved St bulbous, silky-fibrillose, then even, white G adnexo-free, often waved, cinnamon

Woods, pine, amongst heath and furze , rare Autumn $\frac{3}{4} \times 3\frac{1}{2} \times \frac{1}{16}$ in

723 N glandiformis Sacc (from the shape of the pileus, glans, an acorn) $a\ b$

P at length hemispherical, obtuse or slightly depressed, lobed, tan, sienna-shaded, marg strongly incurved St equal, striate, twisted, splitting, pale brownish-tan G adnexo-ascending, broad, crowded, serrate, whitish-umber

On the ground Oct $1\frac{1}{8} \times 3\frac{1}{8} \times \frac{1}{8}$ in

724 N scolectna Quél (from the flexuous stem, Gr skolex, a

P sometimes umbonate, bav-brown-ferruginous, paler at the striate marg St whitish above, fuscous below, at first wholly white-mealy G subdistant, ferruginous

Dead leaves, moist ground under alders Sept $\frac{3}{4} \times 1\frac{3}{4} \times \frac{1}{16}$ in

725 N striæpes Sacc (from the striate stem, pis, a foot) a b

P obtuse, sometimes rugulose or lacunose, ochreous St brittle, white G adnexo-ascending, serrate, crowded, tawny-ferruginous

Gregarious or cæspitose Lawns, amongst grass on soil heaps Nov $1\S \times 3\S \times \frac{3}{16}$ Perhaps a var of 723

- 726 N sideroides Gill (from the colour of the stem, like oxide of iron, Gr sideros, iion, eidos, appearance) a c
 - P subumbonate, subviscid, pale yellowish to cinnamon, marg slightly striate St slightly attenuate downwards, white above, becoming yellowish or ferruginous G with a tooth, somewhat cinnamon

Stumps, trunks, chips, ash, rare Oct -Nov 11 × 21 × 11 in

- 727 N badipes Sacc (from the brown stem, badius, bay-brown,
 - pes, a foot) a b

 P umbonate, tan to cinnamon, mid darker, marg striate

 St ferruginous, fuscous-blackish below, base white-floccose G ventricose, pale yellowish-ferruginous

Under larches Oct - Nov 11 × 3 × 1/2 in

- 728 N nasuta Sacc (from the shape of the umbo nasutus, with a conspicuous nose) a b
 - P acutely umbonate ochreous to citron- or greenish-ochreous marg striate, mid orange or sienna St equal, flexuous, smooth, even, yellow, ferruginous below G broadly adnate, then rounded adnate, subcrowded pallid, then brownish Flish thin, citron-lemon, ferruginous in St
 - Gregarious Swampy places under trees Autumn $1\frac{1}{4} \times 1\frac{7}{6} \times 1\frac{1}{16}$ in Massee regards the British form as a distinct species N hydrophila

b Phæotæ

- 729 N vervaeti Quél (from its habitat rervaetum, fallow ground) a c P plane, subviscid, light yellow mid darker 5/ smooth. whitish G adnate, toothed, ferruginous-fuscous I lish white Pastures, gardens, uncommon May-Nov 11 × 11 × 11 × 11 in
- 730 N triscopus Sacc (from the hair-like stem, Gr this, a hair, pous, a foot) a
 - P convexo-plane, umbonate, bay-brown to ochreous St flexuous, ferruginous G adnate or adnexed, subcrowded, dark ferruginous
 - Copses, rotten wood, old wood in cellars Autumn $\frac{1}{2} \times I_8^1 \times \frac{1}{32}$ in
- 731 N pediades Ouel (from its frequent habitat, Gr pedion, a
 - plain) $a\ b\ c$ P plane, obtuse, rimoso-rivulose, yellow or somewhat buff St with a small basal bulb, colour as P, paler above and below G adnexed or adnate, subdistant, dull cinnamon Flesh whitish Pastures, lawns, roadsides, etc., frequent July-Nov 11 × 25 × 15 in
- 782 N arvalis Quél (from its habitat, arvum, a cultivated field) a b c P plane, subviscid, subrugose, tan-buff St enlarged downwards, rooting, or branched-rooting, colour as P, furnished with an arachnoid A, when young G adnexo-sinuate, subdistant, warm-umber
 - Taste disagreeable On the ground, sea sands July 12 × 18 × 18 in Rooting base 11 in

- 738 N semiorbicularis Quél (from the hemispherical pileus, semi, half, orbicularis, round) a b c
 - P smooth, viscid, corrugate when dry, tawny-ferruginous to tan St pallid-ferruginous or tan, rarely with trace of A G adnate, subrounded or sinuate, ferruginous
 - Pastures, roadsides, etc, examples in Brit Mus from interior of skull of a stranded whale, common June-Nov $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{4}$ in
- 734 N tabacina Gill (from the colour of the pileus as of tobacco, tabacim) a Bay-brown-fuscous
- P plane, subobtuse, hygrophanous, traces of V at marg St lighter above, darker below G adnate or adnexed
 - Subcrespitose Waysides, amongst short grass Autumn $\frac{3}{4} \times 1\frac{1}{4} \times \frac{1}{16}$ in
- 735 N tenax Gill (tenax, tough) a b c
 - P expanded, obtusely umbonate, viscid, cinnamon or shaded olive, fuscous or pale fuscous-slate St adpressedly fibrillose, light-yellowish to slate-white G adnate, subcrowded, whitish-fuscous

Fields, amongst sticks Oct I × 21 × 1 in

- 736 N Myesotis Quel (from its growing in wet places with forget-me-not, Wyosotis) a b
 - P expanded, umbonate, viscid, olivaceous or olive-brownish, becoming light, marg striate, cortinate with white V St often flexuous, fibrillose, white above, brownish below, sometimes with a fugitive A G adnate with a tooth, subdistant, brown-ferruginous, with a serrate white edge
 - Bogs with Miorotis and Folintilla Comarum July-Aug 21 × 53 × 1 in Very variable
- 737 N temulenta Quel (from the bibulous substance and flexuous stem, temulentus, drunken) a b
 - P expanded, subumbonate, moist, ferruginous or reddish, ochreous or whitish when dry, marg striate St pale dull orange or reddish, white at base G adnate, subdistant, attenuate in front, reddish

Woods, open moist places Aug -Sept 12 × 22 × 1 in

- 738 N latissima Sacc (from the very broad gills, latissimus, very broad) a b c
 - P hemispherical, umber, orange-sienna-shaded, or orange-yellow, mid flat St greatly attenuate downwards, tan with a brownish base G rounded adnate, separating, greyish then brown
 - Amongst grass Sept $1\frac{1}{6} \times 2\frac{1}{6} \times \frac{1}{16}$ in Pileus sometimes $1\frac{3}{4}$ in in diam. The mycelium forms an earthy ball at base of stem.

c Lepidotæ

- 739 N porriginosa Karst (from the scurfy pileus porriginosus, full of scurf) a b
 - P expanded, obtuse or subumbonate, dull yellow, clad with saffron flocci, marg appendiculate with V St silky, then

smooth, whitish above and below, mid ochreous G adnate, cinnamon Flesh lemon-white

Amongst twigs and rubbish Oct $2 \times 4 \times \frac{3}{16}$ in

- 740 N sobria Gill (from its not being hygrophanous, sobrius, sober) a c
 - P convex, obtuse or subumbonate, honey-colour V appendiculate at marg, fugacious St tan above, ferruginous below, sometimes white spotted with V G adnate, paler than P

Woods, mixed, on the ground July-Oct $\frac{7}{8} \times 1\frac{3}{8} \times \frac{1}{8}$ in Var dispersa Sacc is half the size of type

- 741 N erinacea Gill (from the bristly pileus, erinaceus, a hedgehog) a b c
 - P expanded, depressed or umbilicate, umber or sienna St shaggy, deep sienna, lighter above and below G adnate with a tooth, clay-umber
 - Solitary Taste insipid Dead branches, rare Jan-Dec $I \times \frac{1}{2} \times \frac{1}{8}$ in Often difficult to see, being exactly the colour of the bark matrix to which it is frequently adpressed
- 742 N siparia Gill (from the covering formed by the vell, siparium, a small curtain) a Rufous-ferruginous, upper part of St and G somewhat paler
 - P convex, densely villoso-squamulose V appendiculate at marg St villoso-downy, except upper part G adnate
 - Wood, earth, dead fern-stems, caddls worm cases, twigs, rare July-Oct $\frac{1}{2} \times \mathbf{1}_8^4 \times \frac{1}{18}$ in Often differs greatly in length of stem from 741
- 743 N conspersa Quél (from the besprinkled scales of the pileus, conspersus, besprinkled) a b c
 - P convex, hygrophanous, bay-brown or crimson-shided St fibrillose, cinnamon or ochreous G adnate, crowded, dark cinnamon
 - Gregarious On the ground or amongst dead leaves and Sphagnum in woods, uncommon Sept-Oct $\frac{7}{8} \times \frac{1}{2} \times \frac{1}{18}$ in
- 744 N escharoides Quél (from the scurfy pileus, Gr eschara, a scar, eidos, appearance) a b
 - P campanulate, obtuse, umbonate or umbilicate, tan or whitish, mid ochreous or fuscous, with an evanescent white V St adpressedly fibrillose, then smooth, pallid or pale ochre to fuscous G adnate with a tooth or emarginato-free, somewhat cinnamon, with a pale edge
 - Gregarious, subcæspitose Bare damp ground, under alders Aug-Oct $\frac{7}{4} \times 1\frac{1}{2} \times \frac{1}{16}$ in
- 745 N earpophila Quél (from its growing on fruit, beech-mast, etc, Gr karpos, fruit, philos, loving) a
 - P convex, obtuse, furfuraceous, atomate, tan-whitish St furfuraceous, then naked, pallid G adnexo-rounded or adnate, ochreous

Beech mast, leaves, etc , rare Sept -Oct 3 × 3 × 3 11

746 N graminicola Gill (from its habitat, gramen, grass, colo, to inhabit) a c

P convex, sometimes papillate, shaggy-tomentose, fuscous to fawn-ochraceous St hirsute, fuscous G slightly adnexed, pallid ochreous

Decaying rushes, straw, grass, twigs Oct $\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3}$ in The stem is rarely branched

XXIX GALERA Quél

(From the shape of the pileus, galerus, a cap)

Veil fibrillose or obsolete Hymenophore confluent with, but hereogeneous from the cartilaginous stem Pileus more or less membranous, coincil or semi-ovate, sometimes expanding, margin striate, at hist straight and adpressed to the stem Stem central,

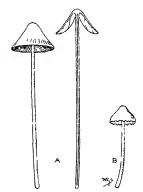


Fig 33 —A Calera tenera Quel entire and in section B C ravida Quel
One half natural size

somewhat cartilaginous and, except 752, fistulose, simple or imperfectly annulate Gills adnate or with a decurrent tooth, or adnexed and becoming almost free Spares elliptical, smooth, ochreous-ferruginous or tawny-ochreous (Fig. 38)

The species are usually small, slender, tender and fragile, they grow on the ground or amongst moss Mostly autumnal

Galera agrees in structure with Mycena, Nolanca, Psathyra and Psathyrella Species 746a - 761

a. Conocephalæ Veil obsolete Pileus usually conico-campanulate, hygrophanous, somewhat even, when dry dotted with soft particles Stem tense and straight Gills ascending, inserted at the top of the cone, somewhat crowded

746a—754

b Bryogenæ Veil cortinate, fugacious Pileus membranous, campanulate, striate, smooth, hygrophanous, even when dry, opaque, very slightly silky Siem thin, lax, flexile, slender Gills broadly and planely adnate, broad, somewhat denticulate Habitat amongst moss except 758

755—759

c Ernode mea Veil manifest, superficial, separating, at first chiefly round the margin, silky and squamulose Pileus somewhat membranous 760, 761

a Conocephalæ

- 746a G apala Quel (from its habitat, rich pastures, not marshes as in some allied plants, a without, palus, a marsh) a c
 - P obtusely campanulate, submembranous, smooth, hygrophanous, somewhat pale warm brown, or pallid-livid to white St hollow, attenuate upwards, fragile, velvety, white G almost free, somewhat narrow, ventricose, pale whitsh-ochre
 - In rich grassy places ' $^{\bf k}$ ept $-7\frac{1}{8}\times2\frac{1}{4}\times\frac{1}{16}$ in $^{\bf k}$ The form S/harobasis has a smooth stem and bulbous base
- 747 G lateritia Quel (from its reddish-brick-colour, later, a brick)
 a b c
 - P conico-evlindrical, membranous, pale yellowish to ochreousbrown, marg striate when moist St shining-whitish or paler than P, white-pruinose G adness-ascending, einnamon

Rich pastures, grassy places, rare June-Oct $1 \times 4\frac{1}{2} \times \frac{1}{8}$ in

- 748 G tenera Quel (tener, tender) a b c
 - P submembranous, deep buff or ferruginous to whitish, marg striate when moist St shining, striate above, colour as P G adnato-ascending, cunnamon
 - Pastures, gardens, flower pots, roudsides, grassy places in woods, common April-Dec 1½ × 4½ × ½ in Var pulosella Karst P pubescent, rotten wood
- 749 G siliginea Quél (from the colour, like bread, siligineus, wheaten) a b
 - P campanulate, smooth, membranous, whitish to sienna-bay, when dry whitish and atomate-sparkling, mid sometimes brown St subpruinose, tan-whitish, lilac or purplish, darker below G adnato-ascending, subdistant, ochreous then bright cinnamon
 - Taste none, odour strong Amongst short grass, road scrapings Oct $1 \times 2\frac{1}{2} \times \frac{1}{16}$ in G campanulata Mass is a form of this

- 750 G ovalis Gill (from the semi-oval pileus) a b c
 - P ferruginous to dull yellowish St colour as P, at first imperfectly annulate G adnexo-ascending or free, ferruginous Amongst grass, on dung, uncommon Sept-Oct 18 × 4½ × ½ in
- 751 G antipus Quél (from the sinuous, rooting base differing from the straight stem, Gr anti, opposite, pous, a foot) a b c
 - P expanded, hygrophanous, atomate, deep ochreous to whitish, marg paler St attenuate below, the rooting base long, tortuous, tan-ochreous, sometimes with an imperfect A G adnexo-ascending, cinnamon Spores rubiginous
 - Single Gardens dung, newly made lawn, rare Mar Aug 1 $\frac{3}{4} \times \frac{1}{18} \times \frac{1}{18}$ in Rooting base 2 in
- 752 (r CONFLRIA Gill (from the crowded habit, confertus, crowded) a
 - P somewhat acutely pointed, white, mid yellowish-brown St solid, shining white V downy, fugitive G ascending, adnexed or fiec, crowded, pile brownish Spores fuscous-ferruginous
 - Cespitose• Amongst tan in hothouses Nov Withering and becoming like soft paper in decay Resembles 41 in habit
- 752a G SPICULA Quel (from the atomate pileus, spiculum, a little hard point) b
 - P membranous, conico-campanulate, then expanded, smooth, hygrophinous, striate when moist, flocculose and atomate when dry, brown ochre St hollow, thickened below, densely white-floccose G adnate, ventricose, ochieous then cinnamon

Coco nut fibre Nov $\frac{1}{4} \times 1 \times \frac{1}{18}$ in

- 753 G spartea Quel (from the rigid grass-like stem, spartum, espaito-grass) a b
 - P expanded, ferrugmous-cinnamon, becoming paler marg striate when moist St smooth, whitish G adnate, darker than P
 - Gregarious Amongst short grass and moss Sept $\frac{1}{2}\times 2\S \times \frac{1}{3}$ m sometimes wholly whitish orange
- 754 G pygmæoaffinis Quél (from its resembling Naucoria pygmæa, but differing in the elongate stem) a b
 - P flat, reticulato-wrinkled fuscous, honey-colour or tan St shining-white G adnexo-free, ferruginous-ochreous
 - 1 ree shaded walks, amongst grass, in a cucumber house, base of trunks Nov $1\frac{1}{8} \times 2\frac{1}{2} \times \frac{1}{10}$ in

b Bryogenæ

- 755 G vittæformis Quel (from a fancied resemblance in the striate margin to a head-band or chaplet, vitta) a
 - P brown, mid sometimes paler St bright rusty-brownish V almost obsolete G adnato-ascending, colour as St

- 756. G rubiginosa Gill (from the dark ferruginous stem, rubigo, rust) a c
 - P wholly striate, cinnamon or honey colour to tan, mid darker G adnato-ascending, distant, ochreous

Amongst moss Sept -Oct 11 × 24 × 1 in

- 757 G hypnorum Quel (from its growing on moss, Hypnum, a genus of mosses) a b c
 - P campanulato-expanded, obtuse or umbonate, pale ochre or pale sienna to tan, mid darker St sienna below, paler and whitepruinose above G ventricose, distant, cinnamon-tawny
 - Odour very strong, alkaline Amongst mosses and hepatics in woods May-Nov 1 × 4 × 18 in Var bryorum Gill Larger than tyle Var sphagnorum Quel On Sphagnum in swamps
- 758 G mniophila Gill (from its growing on moss, Gr mnion, moss,
 - philos, loving) a

 P subpapillate, fuscous light-yellowish to clay-colour St fibrillose, mealy above, floccose below, yellow G adnatoascending, fuscous-clay-colour

On moss Sept -Oct & x 31 x 1 in

759 G minuta Ouel (from its very small size) a

P tan-ochreous St tawny, base forming a small white disc G triangular, adnate, clay-colour, edge whitish

Decayed wood, amongst moss Sept -Oct 1 x 1 x 1 x 1 in

c Errodermea

760 G ravida Quél (1 at us, grey) a

P tan-greyish or tan-umber marg appendiculate with white V St pallid, white-silky G adnexed, ventricose, ochreoussalmon

Gregarious On the ground, amongst chips and rotten wood Autumn 11 × 21 × 1 in

- 761 G mycenopsis Quel (from its resemblance to a Mycena, (ir opsis, resemblance) a
 - P expanded, umbonate, pale honey-colour, marg appendiculate with white V St white-vellowish white silky G adnexed, ventricose, vellowish
 - On Sphagnum, marshy ground Aug -Oct 11 × 48 × 1 in Somewhat lıke 350

XXX TUBARIA Gill

(From the trumpet-shape of typical species, tuba, a trumpet)

Veil universal, floccose at margin of pileus Hymenophore confluent with, but heterogeneous from the cartilaginous stem Pileus submembranaceous, sometimes umbilicate or depressed, margin-except

770-striate Stem central, subcartilaginous, fistulose, simple or imperfectly annulate Gills subdecurrent, broadest behind and



• Fig. 3) - v. I maria furfuracea Gill. B. I. Jaluaosa Kaist Fintire and in section. One half natural size

somewhat triangular Spores ferruginous or fuscous-ferruginous (Fig. 39)

The species are all small, some grow on the ground, others on mosses, twigs, chips, leaves, etc

Tubaria agrees in its chief structural characters with Omphalia and Eccilia Species 762—771

a Genunæ Spores ferruginous

762-768

b Phaetæ Speres fuscous-ferruginous

769-771

a Genuna

- 762 T cupularis Gill (from the shape of the pileus cupularis, cupshaped) a
 - P plano-depressed, hygrophanous, smooth, rufescent to light yellowish St whitish or faintly ochreous G scrrulate, reddish

Mountainous heaths, amongst grass $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times$

- 763 T furfuracea (31ll (from the scurfy pileus, furfur, bran) a v c P flat, umbilicate, cinnamon to tan-whitish, marg substriate when moist, appendiculate with white-squamulose V St floccose, colour as P, villous at base G subdecurrent, bright cinnamon or clay
 - Gregarious Tasteless or pleasant Thatch, chips, twigs, wood, shavings, 1vy, humus Jan-Dec $I_8 \times I_8^4 \times \frac{1}{8}$ in Polymorphous Var trigonophylla Sacc Smaller than type, G triangular Var heterosticha Karst P depressed, umbonate

764 T paludosa Karst (from its habitat, palus, a marsh) a b

P expanded, papillate, sometimes striate, pale yellowish-fuscous to whitish St colour as P, flocculose above, white-villous below G adnato-decurrent, paler than P

Amongst Sphagnum May-Sept 11 × 32 × 1 in

765 T stagnina Gill (from its habitat, stagnum, a swamp) a b

P expanded, brown, or somewhat pale and ochreous, marg white-scaly with V St attenuate below, rubiginous G adnato decurrent, broad, ferruginous

Amongst Sphagnum in bogs Sept I × 4 × 1/4 in

766 T pellucida Gill (from the translucent pileus, pellucidus, transparent) a b

P campanulate, umbonate, cinnamon to ochreous-tan, marg striate, silky-squamulose with V St shining, paler than P, pruinose above G adnato-decurrent, subtriangular, colour as P, faintly stenna-tinited

Roadsides, amongst leaves Autumn 7 × 13 × 18 in

767 T embolus Karst (from the wedge-shaped gills, Gr embolos, a wedge) a b c

P expanded, obtuse, pale yellowish-tawny to ochreous-tan St attenuate downwards, smooth, naked, paler than P G thick, very distant, separating from hymenophore, bright tawny-cinnamon

Damp heathy ground, amongst moss and grass , rare June-Nov $\frac{1}{6} \times 2 \times \frac{1}{16}$ in Stem sometimes drawn up abnormally amongst grass

768 T autoehthona Sacc (from its terrestrial habit, (ir autos, self, chthon, the earth) a b c

P flat, ochreous-white, marg flocculose with V $\mathcal{S}t$ paler than P, base white G adnato-toothed, honey-colour

On the ground, amongst grass Tuly-()ct $\mathbf{I} \times \mathbf{I}_8^1 \times \mathbf{I}_6^1$ in

b Phæotæ

769 T muscorum (zill (from its growing on moss, muscus) a b

P expanded, subdepressed, tawny-yellow, mid sienna St colour as P G horizontal, adnate with a decurrent tooth, paler than P

Amonest mosses on heaths, on tree trunks July & × 21/8 × 1/4 in

770 T erobulus Karst (from a fancied resemblance in the pileus to a knot of hair on the crown of the head, Gr & lobulos) a

P expanded, obtuse, sienna- to whitish-tan, white-floccose with V, then naked St white-floccose, sometimes subannulate G adnato-decurrent, crowded, fuscous-ferruginous

Amongst sticks, chips Sept -Oct I X 1 X 1 In

771 T inquilina Gill (from its growing on other substances, inquilinus, a lodger) a b c

P plane, depressed, broadly umbonate, viscid when moist, yellowish-sienna, becoming pale, marg striate, sienna St

attenuate downwards, paler than P, white-fibrillose, base white-floccose G adnato decurrent, subdistant, umber

Gregarious Grass, ferns stalks, chips , common May-Oct $\frac{7}{8} \times I_{\frac{1}{8}} \times I_{\frac{1}{8}}$ in Must not be confounded with 858 or 860 Var abola Karst Stem rooting , roots of grasses

XXXI CREPIDOTUS Quel

(From the shape of some of the species, Gr krepis, a slipper)

Veil obsolete Hymenophore confluent and homogeneous with the fleshy stem Pileus excentric, lateral or resupinate, commonly thin and with soft flesh Stim lateral, simple or absent Gills



l ig 40 — A Crepidotus applanatus Karst One half natural size B C epibryus Quel Fuice natural size Entire and in section

more or less decurrent, reaching the stem or axis, or radiating from an excentic point *Spores* pale ferruginous or cinnamon (Fig. 40).

The species, except **784**, grow on wood, trunks, twigs, grass,

moss, etc., they are mostly small in size

Crepidotus agrees in structure with Pleurotus and Claudopus

Species 772-785

- 772 C palmatus Gill (from a fancied resemblance in the pileus to the palm of the hand) a c
 - P fleshy, convex, expanded, smooth, ferruginous to warm brownish-buff St solid, excentric or lateral, curved, smooth, whitish G rounded, subdistant, brownish-buff

Trunks Oct 5 × 14 × ½ in

- 773 C alveolus Quél (from a fancied resemblance, when inverted, to a little trough, alveus, a trough) a c
 - P obovate, dimidiate, ochreous-fuscous St a villous base G subdecurrent on base, clay-fuscous

Stumps, oak, rare Aug-Nov Diam 2 in

774. C mollis Ouel (mollis, soft) a b c

P obovate, dimidiate, pale yellowish-tan, marg at first incurved, then undulate St a strigose base G rounded on base, sometimes broad, cinnamon

Stumps, poplar, willow, pear, sticks, logs, sawdust, squared timber, humus, common May-Dec Diam 24 in

- 775 C applanatus Karst (from the plane pileus) a c
 - P reniform, watery, pale cinnamon to whitish, marg substriate when moist St when present white-tomentose G subrounded, watery-cinnamon or ochreous

Decaying wood Oct 11 × 1 × 1 in Much like 1444 in appearance

- 776 C calolepis Karst (from the beautiful scales of the pileus, Gr kalos, beautiful, Lipis, a scale) a b
 - P reniform, pale dull-ochieous, rufescent-scaly St a small villous base G rounded on base, pale brown then fuscous-ferruginous Dead wood, poplar Oct Diam 18 in , sometimes 27 in
- 777 C haustellaris Karst (from its watery substance haust llaris, a drawer of water) a
 - P obovate or remform, pale yellowish-tan, then paler St excentric, slightly attenuate upwards, white G rounded, adnexed, fuscous-cinnamon

Gregarious Dead trunks, poplar, rare $1 \times \frac{1}{8} \times \frac{1}{8}$ in

- 778 C Rubi (from its habitat, Rubus, bramble) a c
 - P obovate or reniform, crystalline-mealy, yellow to livid-grey, then pallid St excentric, whitish, strigose at base G sub-decurrent, brown Spores brown

Gregarious, uncommon July-Oct $\frac{5}{16} \times \frac{1}{5} \times \frac{1}{16}$ in

- 779 C ehimonophilus Sacc (from its time of growth, (ir chaimon, winter, philos, loving) a
 - P circular, convex, white, villous-downy St excentic, almost obsolete, white G subdecurrent on base, few, distant, pale yellow-brown Spores pale yellow-brown

Dead leaves, Pyrus torminalis, logs Dec Dian 1 in

- 780 C epibryus Quel (from its frequent habitat, moss (ir ipi, upon, bruon, moss) a c
 - P resupinate, at first cup-like, sessile, membranous, white G rounded to a central or excentric axis, pale yellowish

Mosses, grass, leaves, holly, Vaccinium Oct Diam is in

781 C Phillipsii Sacc (after William Phillips, mycologist) a b c

P ovate, expanded, smooth, pale umber, marg striate curved, colour as P G rounded-adnate, paler than P

Dead grass May-Oct 1 x 1 x 1 x 15 m

- 782 C proboseidens Gill (from the trunk-like stem, (in proboskis, a snout) a b
 - P obovate, pendulous, scabrous-spotted, pale sepia, marg incurved St attenuate to base, inserted on and darker than P, shaded umber-sienna G inferior, adnate, rounded to an excentric axis, flesh-colour

Pendulous from a wooden ceiling Dec g x g x 1/8 in

- 783 C pezizoides Gill (from its resemblance to certain cup-fungi of the genus Peziza) a
 - P resupmate, saucer-shaped, then reflexed, sessile, mealy, whitish G radiating from a central axis, tawny

Gregarious Rotten branches, rare Diam 1 in

784 C epigæus Sacc (from its growing on the ground, Gr epigaios, upon the earth) a

P subreniform, becoming horizontal, fragile, reddish-grey St a villous lateral base G rounded on base, watery, rufescent

On marlstone clay Nov Diam 11 in

785 C Ralfsii Sacc (after J Ralfs) a b c

P reniform, horizontal, slightly hispid-furfuraceous, yellow St almost obsolete G rounded to a lateral base, clay-colour, edge whitish

Decaying wood, dead branches March Diam 1 in

785a C putrigenus Sacc (from its habitat, rotten logs, puter,

putrid, gigno, to bear) a c

P membranous, dimidiate or reniform, pubescent, whitish, marg substriate, base villose G broad, irregular, unequal, whitish, then colouied by the ferruginous-brown spores

Gregarious, or imbricate, in close clusters, closely sessile Damp or putrid logs, beech Sept P 4 × 3 in

SLRIES IV PRATELLA F1

(From the habitat, pratum, a meadow)

Sports typically black-purple or fuscous purple, often fuscous, brown-black or dark brown

Genera XXXII—XXXVIII

XXXII CHIIONIA Karst

(From the veil which in infancy covers the plant like a cloak, Gr chiton, a tunic.)

Vul universal, separate from the pileus and remaining as a volva at the base of the stem Hymenophore distinct from the fleshy



ing 41 —Section of Chitomia rubriceps Sacc One half natural size

stem Pileus subfieshy Stem central, simple, hollow, volvate Gills free Spores fuscous-purple (Fig 41)

Represented only by one introduced species

Chitoma agrees in structure with Amanitopsis, Volvaria and Acetabularia Species 786

786 C RUBRICEPS Sacc (from the red pileus, ruber, red, caput, the head) a

P expanded, umbonate, smooth, even, brick-red St rooting, dull pale reddish-ochreous, paler below Vo large, sheathing, saccate, torn at edge G subcrowded, purplish-brown Soil in an aroid house Dec 18 × 34 × 1 in

Sou in an arola house Dec 18 x 37 x 8 ii

XXXIII PSALLIOTA Quél

(From the annulus, Gr psalion, a ring)

Val universal, concrete with the cuticle of the pileus and forming an annulus on the stem Hymenophori distinct from the fleshi stem Pileus fleshy Stem central, fibrous fleshy, annulate Gills

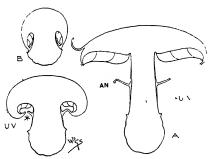


Fig. 42—Psalliota campestris Quél In section Half natural size A full grown example AN annulus LV universit veil B young example showing universal veil C half grown example showing rupture of veil at *

free, at first whitish, then frequently salmon-colour, at length deep purple-brown Spores dark brownish-purple, brown or reddish-purple (Fig 42)

All the species grow on the ground and are late æstival or autumnal, rarely vernal, they mostly grow in rich pastures and on manured ground, sometimes in woods, a non-British species, Agaricus geniculatus Briz, grows on wood

Several species are valued for their esculent qualities

Psalliota agrees in structure with Lepiota, Annularia and Togaria
Species 787—800

a Edules Larger, fleshy Edible 787—794
b Minores Usually smaller, thinly fleshy Not used as food
795—800

a Edules

- 787 P augusta Quél (from its appearance, augustus, noble) a b P expanded, fibrilloso-squamose, rich ochreous-brownish, marg almost white, sometimes appendiculate with V St solid, enlarged below, tan, faintly sienna below G crowded, faintly brownish
 - An inferior esculent Orchards, woods, under spruce firs, on ant hills Aug.—Sept $7 \times 6\frac{1}{2} \times 1\frac{1}{4}$ in Might when young be mistaken for a Leputa
- 788 P Elvensis Henn (from its place of growth when first named, near the River Elwy, N Wales, 1863) a b
 - P expanded, fibrilloso-scalv, warm brown with darker scales St solid, equal or attenuate downwards, fibrillose, paler than P A large G brownish flesh-colour Flesh changing to red or pale rose when cut
 - Sometimes cuspitose Under oaks, beech, fir Aug –Sept $6\frac{1}{2} \times 5 \times 1\frac{1}{4}$ in λ drawing in Brit Mus is dated 1847
- 789 P arvensis Quel (from its habitat, arvum, a cultivated field) a b c
 - P at length flat, floccose, silkv or squamulose, whitish, mid faintly yellowish, marg ragged with V St hollow, attenuate upwards, even, smooth, white A large G ventricose, at length dark puiple-brown Flesh white, changing to pale yellowish or brownish
 - Spring to winter 7\(^2\) \times 4\(^4\) \times 1\(^4\) in The cultivated mushrooms of gardeners belong to this species. There are several named varieties 1 fur fur accen. We Sm., Agaricus arvenis Schaeff, var purpurascens Cooke, P purple 2 alboquamosa We G. Sm., P white scaly 3 vapovaria We G. Sm., A vapovaria Otto, P even, brown plose 4 hortinis We G. Sm., A campestris I, var hortenis Cooke P brownish fibrillose or squamulose 5 Buchananis We G. Sm., A campestris I, var Buchananis Berk, P smooth as if white washed, A slight, fugacious 6 oxyptarim We G. Sm. A cryptarium Levell, the name applied to the form grown in caves, grey white or brownish white
- 789a P perrara Magnus (perrarus, very rare) a b
 - P fleshy, globoso-hemispherical, then expanded, scaly, whitish-ochre, se concentric, florcose, brownish-yellow to sienna St stuffed, then hollow, equal or attenuate upwards and submarginately-bulbous, smooth above, squamose below, white to pale vellowish or salmon-shaded, se salmon-brown A large, superior, membranous, floccose, persistent G free to remote, crowded, whitish, then salmon to full brownish-slate or fuscous Flesh white, becoming yellowish, faint reddish-ochre or salmon when broken
 - Taste somewhat sweet, odour somewhat of anise Damp ground, under oaks, near conifers Aug 5½ × 4 × ½ in Analogous with 21, 33 and 792a

- 789b P xanthoderma W G Sm, Agaricus xanthodermus Genev (from the yellow-stained outer surface and flesh, Gr xanthos, yellow, derma, skin) a
 - P fleshy, convex, even, greyish-white, becoming vellowish when touched St stuffed to hollow, white, yellow at base A membranous G sinuato-free, pale rose, becoming purple-brown Flesh becoming yellow

Pastures Autumn $3\frac{1}{2} \times 4 \times \frac{3}{4}$ in

- 790 P cretacea Quel (from its chalky-white coloui cicla chalk)
 - P convexo-flattened, obtuse marg even, rivulosc or squamulose St hollow, attenuate upwards, smooth G becoming fuscous Flesh unchanging white

Pastures, stoves, rare Feb -Oct 3\frac{3}{4} \times 4 \times \text{g in Resembling 40}

791 P pratensis Quél (from its habitat, pratum, a meadow) a c P expanded, obtuse, floccoso-farinose, then smooth, whirish, then greyish St hollow, colour as P G arcuste, brown

Taste and odour pleasant Pastures, woods Oct $3\frac{1}{2} \times 3$, in

- 792 P campestris Quel (from its habitat campus, a field or plain)
 a b c
 - P expanded, silky-even, sometimes squamulose, whitish St stuffed, even or squamulose, whitish G crowded bright salmon, then umber-fuscous Flsh white
 - Odour pleasant May Dec 5 × 3\footnote{\chi} \times I in Variable in size and colour The common edible mushroom Sometimes the flesh becomes faintly reddish or brownish when cut or brole in Som times the odour is stong, and somewhat unpleasant The following varieties have been described—1 alba W & Sm., Igaraeus campetris I var albas \text{Nice Comparison} P silky white, \$S\$ short 2 praticola Magnus, \$P\$ taking the flesh rufescent when cut 3 rufescent W & Sm., 4 campetris I, \text{Vi tratescent Fr., } P rufous squamulose, \$S\$ long 4 umbrina Magnus, \$P\$ at length even, umber 5 fulvastea W & Sm., A campetris I, \text{Vi tratescent Fr., } P othreous tawny, \$S\$ solid 6 ootata W & Sm., I ca restrict I, \text{Vi tratescent Viv. } P\$ sulcett 7 strength W & Sm., I ca restrict I, \text{Vi tratescent Viv. } P\$ sulcett P\$ strength W & Sm., I canpetris I, \text{Vir. } P\$ at length even, shining white, marg permanently appendiculate with veil, \$S\$ clongate bulbous 9 exaninalata W & Sm., A campetris I, \text{Viii. } P\$ clongate bulbous 9 exaninalata W & Sm., A campetris I, \text{Viii. } P\$ clongate bulbous 9 exaninalata W & Sm., A campetris I, \text{Viii. } P\$ clongate bulbous 9 exaninalata W & Sm., A campetris I, \text{Viii. } P\$ clongate bulbous 9 exaninalata W & Sm., A campetris I, \text{Viii. } P\$ clongate bulbous 6 fugitive or obsolete The gills of cultivated mushrooms are frequently thickened or obliterated by disease, this is caused by a white parasite fungus, Mycogone per incora I biseased examples are not fit for food Sound examples of true mushrooms sometimes cause distribute and sweating
- **792a** P villatica Magnus (from its frequent habitat, near houses in the country, villa, a country house) a b
 - P convex then expanded, silk), soon squamose, ground pale yellowish or brownish straw-colour then vinous-brownish, so vinous-brown St solid, somewhat ventricose, paler than P, clouded pale vinous-brown A superior, large, tomentosc beneath G free, very crowded, not at first bright salmon,

becoming vinous-brown Flesh white, pale reddish-yellow when broken

Edible Taste of almonds, odour somewhat rank Rich pastures, lawns, manured fields, in cellars, on mushroom beds in and out of doors, rare If 2 in $\times 7\frac{1}{2} \times 3\frac{1}{2}$ in This is the "gigantic mushroom" of newspapers, it attains a diam of 1 ft 5 in or more and a weight of $4\frac{1}{2}$ lbs By some authors considered a var of 792 or 789, but probably distinct Badham, "E-culent Fungueses of England," p 100, mentons an example with a circumference of 43 ins , and weight of 5 lbs 6 ozs

793 P silvatica Quel (from the habitat, silva, a wood) a b

P at length flat, subumbonate, floccoso-squamulose, pale rustyblown or tufescent to pale ashy-brown St fibrillose below A, much paler than P or white G thin, and, reddish to umberfuscous

I.dible with a delicate flavour Woods, under cedars, frequent July-Sept $3_b \times 3_b^2 \times \frac{3}{4}$ in Usually thinner than its allies $\mathcal{S}\ell$ varying long and short

794 P hæmorrhoidaria Magnus (from the flesh changing colour to blood red when bruised, Gr haimorrhoides, veins which discharge blood) $a\ b$

P at Leigth expanded, obtuse, adpressed-scaly, rufous-fuscous St hollow, fibrillose, slightly attenuate upwards, whitish G crowded, bright salmon to umber-purple

Suspected sometimes poisonous Woods parks. Aug.–Nov. $4\frac{5}{8} \times 4\frac{3}{8} \times \frac{7}{8}$ in

794a P peronata W G Sm, Agarcus peronatus Mass (from the scale stem peronatus, sheathed) a

P hemispherical then expanded, pale dull ochreous, densely scaly sc small, silky, brown St hollow, equal, marginately bulbous, smooth above A, white-scaly below A large, spicading G very distant, crowded, pink then pale purple-brown Flish white, brownish in St when cut

Edible I me woods Oct $3\frac{1}{2} \times 6\frac{1}{4} \times \frac{1}{2}$ in Attaining a size of $4\frac{1}{2} \times 8$ in Allied to 787 (but differing in the hollow, peronate stem) and 794

b Minoris

- 795 P comtula Quel (from the beautifully coloured gills, comptus, gaily adorned) a b
 - P flat, adpressedly fibrilloso-scaly, yellowish-white, maig appendiculate with V St hollow, colour as P or paler A fugacious G crowded, fuscous-flesh-colour as P
 - Edible Taste and smell strong of anise Woods May–Oct $1\frac{1}{2} \times 1\frac{1}{3} \times \frac{1}{3}$ in Might be mistaken for a small 792
- 796 P subgibbosa Henn (from the somewhat obtuse pileus, subgibbosus, somewhat gibbous) a c
 - P plane, smooth, stenna-tan, marg silky-fibrillose St hollow, tan-white A fugacious G ashy-brown

Woods Sept $4 \times 3\frac{1}{4} \times \frac{1}{2}$ in Might be mistaken for 792

797. P sagata Henn (from the pelliculose pileus, clothed with a cloak, saga, a mantle) a b

P plane, smooth, bright yellowish-brown St hollow, colour as P, ochreous or reddish A distant, white G pale purple-brown or brown-salmon

Taste and odour of 792 Under beeches Oct 28 x 28 x 1 in

798 P rusiophylla W G Sm, Agaricus rusiophyllus Lasch (from the rose-coloured or reddish gills, ruseus, reddish, Gr phullon, a leaf) a b

P somewhat fleshy, convex then plane, subumbonate, fibrillose, pale flesh-colour or pale purple, becoming pallid St imperfectly hollow, attenuate upwards, silky fibrillose white, shaded faint ochre A persistent, drooping G free, crowded, thin, dry, rosy, then pale purple, pinkish-sienna and brownish Flish whitish, unchangeable

On the ground Autumn $2\frac{1}{8} \times 2\frac{1}{8} \times \frac{1}{4}$ in

799 P dulcidula Henn (from its taste, dulcis, sweet) a

P plane, subgibbous, glabrous, drv, whitish to pale ochreous S^{\prime} hollow, sometimes subbulbous, colour as P A persistent G crowded, slate-colour

Odour mild Heaths Oct $2\frac{1}{2} \times 2 \times \frac{1}{4}$ in Might be mistaken for 792

800 P echinata Quel (from the rough pileus, echinus, a hedgehog) a b c

P expanded, obtuse, floccoso pulverulent, dark brown mid darker, marg appendiculate with V St fistulose, usually attenuate downwards, floccose, light or dark dull-brownish, crimson, purple or grey-brown G crowded, rose cinnamon-crimson, crimson or purple Fhish brownish or reddish Spores very pale whitish-dull-purple

Gregarious or cespitose Odour strong and disagreeable, mephitic or like as Woods, beech, greenhouses May-Nov 14 × 3 × 4 in Springing from a compa t ball of earth or mycelum Becomes jet black when dry The vesiculose meal on the pileus is transparent yellow Sometimes placed in *Inacybe*, but retained here on account of the colour of the spores when fresh

XXXIV PILOSACE Quél

(From the pelliculose pileus, Gr pilos, felt, sakos, a garment)

Veil obsolete Hymenophore distinct from the fleshy stem Pileus fleshy Stem central, simple, without cartilaginous bark Gills free or remote Spores purple-brown (Fig. 43)

The only British species grows on the ground

Pulosace agrees in structure with the fleshy species of Hiatula, Pluteus and Pluteolus Species 801



Fig 43 -1 ilosaci algeriensis Quel În section Half natural size

801 P algeriensis Quel (from its being first found in Algeria) a b
P plane, gibbous of subumbonate, smooth, white, becoming
brownish above when fully developed St solid, silk, white
G narrow, salmon to rose, becoming dark purple-madder
Edible On the ground Aug 3¾ × 1½ × 1½ in Intermediate between
Psalliota and Strophavia with the repect of an exampliate 789

XXXV STROPHARIA Oucl

(From a fancied resemblance in the annulus to a sword-belt,

Gr strephos)

Vel annular on stem Hymenophore confluent and homogeneous with the fleshy stem Pilus with or without a pellicle, even, scaly

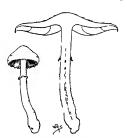


Fig. 44 —Stropharia aruginosa Quel entire and in section One third natural size

and viscid, or innato-fibrillose and dry Stem central, fleshy, annulate Gills more or less adnate, at first whitish, or pale clay-brownish (Fig 44)

Most of the species are epiphytal, some grow on the ground Stropharia agrees in structure with Armillaria and Pholiota

Species 802-820

a Viscipelles Pileus with an even or scaly, usually viscid pellicle

Not usually growing on dung

802-810

Growing on dung, annulus often imperfect 811—814

b Spintrigeræ Pileus without a pellicle, innato-fibrillose, not viscid 815—820

a Viscipillis

- 802 S æruginosa Quel (from its veidigris colour , ærugo, verdigris) a b c
 - P expanded, subumbonate, brownish-yellow, covered with transparent blue gluten, clad with white scales, marg appendiculate with V St hollow, white scaly and viscid below A, blue or verdigris, often furnished with stringy root-like growths G purple
 - Sometimes crapitose Odour strong of rancd outment Woods, mendows, damp thatch, wood, stumps, hazel, amongst stones, common July-Nov $3\frac{1}{2} \times 4\frac{1}{2} \times \frac{1}{2}$ in
- 802a S squamulosa Mass (from the small scales of the pileus squama, a scale)
 - P soon plane, dry, silky, deep verdigns-green with darker, innate floccose squamules mid yellow-orange marg white with veil St at length hollow, paler than P, white at base A fragmentary in the form of large hard white sq at apex G crowded, brown, with a vinous tinge Flish white in P pale verdigns in St

Amongst stones, Ripon Sept 1895 23 × 24 × 8 m

- 803 S albocyanea Quel (from its colours, albus, white, cyaneus, blue) a b c
 - P plane or subumbonate, bright blue or verdigris from the gluten, becoming dull yellowish or white St hollow, not viscid, white A fibrillose, purple G fuscous-salmon Flesh white, pale verdigris-green or pale blue
 - Sometimes crespitose Pastures, woods, sometimes on dung , uncommon Sept Nov $1\frac{1}{2} \times 3\frac{3}{4} \times \frac{1}{8}$ in
- 804 S inuneta Quel (from the besmeared pileus, inungo, to besmear) a b c
 - P convex, subumbonate, light yellowish or brownish, slate-purple from the gluten St fistulose, not viscid, white A fibrillose G adnate, dull fuscous-purple Flesh white
 - Gregarious, sometimes cæspitose Taste and odour like radishes, but disagreeaule Rich pastures, graveyards, lawns, stumps, sticks Sept-Nov 14 × 38 × 3 till Form Intellessis Sacc, P convex, typanded, 54 stuffed Form upsaliensis Sacc, P convex, plane, umbonate, 5t hollos Var pallida W G Sm, Agaricus inunctus Fr, var pallidus B & Br pale

- 805 S coronilla Quél (from a fancied resemblance to a crown in the whitish-floccose margin of the pilcus, corona, a crown) a b
 - P convexo-expanded, obtuse, light yellow, mid sub- or whollyvinous St stuffed, fibrillose, white G crowded, vinousbrownish
 - Waysides, parks May-Oct 11 × 7 × 18 in Perhaps the same as 807
- 806 S obturata Quél (from the stuffed stem, obturo, to stuff) $a \ b \ c$
 - P very fleshy, convex, obtuse, often rimoso-squamulose, pale ochreous mid shaded sienna St not scaly, white, with a membranous collapsing A G crowded, dull purplish-brown
 - On the ground amongst grass, rare Supt-Out $I_2^2 \times I_8^5 \times \chi_8^3$ in Might be mistaken for 792
- 807 S melasperma Quel (from the blackish spores, Gr melas, black, sperma, r seed) a c
 - P expanded, biscuit-colour or pale buff, or white with a yellowish maig 5t hollow, white G rounded, ventricose, purplish, then deep purple-brown Fksh white, yellowish in St
 - Meadows and borders of thickets, rare Aug –Oct $2\frac{3}{8} \times 2 \times \frac{3}{16}$ in Might be mistaken for 792
- 808 S squamosa Quél (from the scal) pilcus, squama, a scale) a b c P expanded, obtuse, ochreous or brownish mid darker, elad with small whitish or brown scales St hollow, viscid-scaly below distant 1, pallid above, sienna below G roundedadnate, blackish, with a whitish edge
 - Woods, fields amongst thips, sometimes from interior of betch nots Sept-Nov. $2\frac{1}{4} \times 5_8 \times \frac{1}{4^8}$ r in Var the austa Mass. P soon glabrous, more slender than type. Var aurantiaea Mass. P orange or brick red
- 809 S Percevalu Sacc (after Cecil H Spencer Percival) a b c
 - P expanded, subumbonate, warm brown-ochreous, marg appendiculate with floccose white V St hollow, attenuate upwards, fusiform-rooting, pullid above, pale brownish and squarrose below distant A G distant, pallid umber
 - Sawdust, rotten wood Nov 24 × 38 × 8 m Possibly the same as S dyplata Karst, but that has a solid stem Might be mistaken for a Flammula Milled to 808
- 810 S Worthingtonii Sacc (after Worthington G Smith) a b
 - P hemispherico-conical, smooth, golden-yellow St fistulose, cobalt, or turquoise-blue A imperfect G adnato-ascending, palled brown Flesh pale sulphur-yellow in P, pale bright blue in St
 - Pastures, woods Nov -Dec 7 x 21 x 16 in
- 811 S luteonitens Quel (from the shining yellow pileus, luteus, yellow, nutens, shining) a
 - P expanded, umbonate, sometimes whitish, with a few small sienna scales 5/ hollow, even, pruinose above distant A,

colour as P, sienna at base G adnexed, ventricose, pale purplish-brown

Dung, sawdust, earth Sept 27 × 21 × 1 m Not unlike 818

812 S merdaria Quel (from its habitat merda, dung) a b c

P conveyo-plane, smooth, hygrophanous, yellow or brownish then straw-colour, marg appendiculate with white V St stuffed, floccose, dry, straw-white or brownish, base white-villous G adnato-rounded or subdecurrent, purplish-fuscous

Gregarious subcrespitose Dry dung, road scripings Aug – Oct $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ in 817 is perhaps form major Fr of this species Easily overlooked, colour of pileus exactly that of dry horse dung

813 S stereoraria Quel (from the habitat stereus, dung) a b c

P hemispherical smooth, yellow mid darker marg substriate S/ stuffed, yellowish A viscid G very broad, subdistant, purple-slate

Dry dung in pastures May-Nov $1\frac{1}{2} \times 3\frac{1}{4} \times \frac{1}{5}$ in

814 S semiglobata Quel (from the half-globose pileus) a b c

P yellowish St fistulose, smooth, colour as P, thickly covered with transparent gluten below the glutinous A G very broad, pale purplish, clouded purple-black

Greçanous Dung, rabbit, horse, in pastures, common April-Nov $1\frac{1}{2} \times 5\frac{1}{2} \times \frac{1}{2}$ in U smaller than 813 but sometimes twice the size of type

b Spintrigeræ

815 S caput-medusæ Karst (from a fancied resemblance in the pileus to the head of Medusa caput, a head) a b c

P expanded, obtusely umbonate, scaly-squarrose, soon naked, pale white umber mid umber sc sepin St hollow, white above squarrose and white umber below superior A if present G ventricose, at length separating free, pallid umber or olive-shaded, spotted ferrugmous, edges white

Subcæspitose Woods, pine, about fir stumps, base of clm, rarc Sept-Oct $3 \times 3\frac{1}{2} \times \frac{1}{2}$ in Becoming darker when dry

816 S scrobinacea Sacc (from the appearance of the pileus as if sprinkled with sawdust, *scrobis*) a b

P expanded, obtuse, tan mid ochrcous-tin, or grey or brown shaded, clad with minute, fugitive sepia squamules S7 hollow, fibrillose whitish, squamulose below the fugitive A G crowded, purple

Subcæspitose On or near stumps, ash, rare Aug-Oct 18 × 38 × 1 in Thinner and more graceful than 815

817 S ventricosa Mass (from the ventricose gills) a

P expanded, broadly gibbous, even, smooth, subviscid in wet weather, tawny-ochrcous, becoming paler 57 hollow, ventracose below with a rooting base, minutely squamulose, pale yellow A large, persistent G slightly adnexed, ventricose, subcrowded, purplish-brown

Cæspitose On the ground 1½ × 3 × ½ in Perhaps only a form of 812 form major Fr

- 818 S Jerdonii Sacc (after Archibald Jerdon) a
 - P expanded, obtusely umbonate, minutely rivulose, pale ochreous, mid slightly darker, sc white St hollow, attenuate upwards, white above A, subscaly, tan-ochreous and brownish below G transversely striate, purple-brownish

Stumps, fir, rare Sept -Nov 2 x 21 x 1 in

- 819 S spintrigera Sacc (from the annulus, spintfur, a bracelet, gero, to curry) a
 P flat, obtuse, even, smooth, funtly ochreous or brownish
 - P flat, obtuse, even, smooth, funtly ochreous or brownish 5/ hollow, attenuate upwards, floccopo-fibrillose below A, white A distant, fugacious G crowded, fuscous-brown Caspitose Stumps, betch Sept $3\frac{1}{4} \times 3\frac{1}{6} \times \frac{1}{16} \times 10^{-1}$
- 820 S hypsipus Karst (from the long stem, Gr hupsipous, high-footed) a b
 - P plane, subobtuse, even, smooth, hygrophanous, pallid, pale brownish, or shaded dull flesh-colour, marg striate St hollow, smooth, white A distant G subdistant, brown or dull purplish-slate

Swampy places, amongst grass, sometimes on moss and sticks. Oct $3\frac{1}{2} \times 6\frac{1}{2} \times \frac{1}{16}$ m

XXXVI HYPHOLOMA Quel

(From the web- or fringe-like veil, (ir huphe, a web, loma, a fringe)

Veil fringe-like, adhering to the maigin of the pileus, sometimes forming a fibrillose annulus Hymenophore confluent and

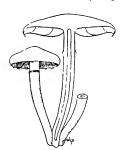


Fig 4 —Hypholoma sullateratum Quel Entire and in section One third natural size

homogeneous with the fleshy stem Pilus more or less fleshy, the margin at first incurved Stem central, simple, or slightly

fibrilloso-annulate Gills adnate or sinuate Spores slate-purple (Fig 45)

The species grow on wood and have a cæspitose habit. None are edible, some are nauseous-bitter

Hypholoma agrees in structure with Tricholoma, Entoloma and Hebeloma Species 821-844

a Fasciculares Pileus tough, smooth, dry, except 821 and 828,

brightly coloured, not hygrophanous Gills adnate 821-828

b Viscidæ Pileus naked, viscid 829, 830

c Velutina Pilcus silky with innate fibrils or streaked

831-834 d Flocculosæ Pilius with floccose superficial separating scales 835, 836

e Appendiculatæ Pileus smooth, hygrophanous

837-844

a Fasciculares

821 H silaceum Quel (from its colour, sil, yellow-ochre) a

P subexpanded, obtuse, viscid, brown-ochicous, marg ciacked, St bulbous, fibiilloso-striate, shining, colour as P G purplish-brown or grey olivaceous

Solitary to coespitose Taste mild, odour meals Old pastures, under firs Aug -Nov 2 × 3½ × ¼ in Not unlike some forms of 822, intermediate forms occur

822 H sublateritium ()ucl (from the colour of the pileus, sub, somewhat, later, a brick) a b c

P convexo-plane, obtuse, tawny brick-red, marg paler, appendiculate with V, sometimes with sc St stuffed, attenuate downwards, scaly-fibrillose, pale yellow above, ferruginous G sinuate, arcuate or decurrent, dull yellow-greenish to pale slate-purple Ilesh sulphur-white

Crespitose to solitary, sometimes in rings near trees. Probably poisonous Taste usually bitter nauseous Forests, bed_crows, stumps, rails old pine wood, oak, common April-Dec $3\frac{1}{2} \times 4\frac{3}{4} \times \frac{1}{2}$ in Polymorphic, P sometimes 7 in in diam \(\frac{1}{2}\) are Schaeffert \(\frac{1}{2}\) acc \(G\) deeply decurrent Var squamosum Sace P brown squamulose

823 H capnoides Quel (from the smoky-tinted gills, Gr kapnos, smoke, eidos, appearance) a b c

P subexpanded, obtuse, shining, pale ochroous with mid siennared, or wholly orange St hollow, silky, even, elastic, pale ochreous, or whitish above and brownish below G subcrowded, and, grey to fuscous-purple

Taste and odour mild Woods, pine, pine stumps, uncommon April-Dec 27 × 5 × 4 m

824 H epixanthum Quél (from the yellowish-brown colour, Gr epixanthos, yellowish brown) a b c

P expanded, obtuse, silky, apt to split, marg lobed, undulate St hollow, floccoso-fibrillose, reddish-sienna, darker below G crowded, light yellow, sometimes cinereous Flesh white, becoming light yellow, sienna in St

Taste acrid, odour strong, acid Stumps, fir, fillen firs, on the ground, frequent Aug-Dec 3\(\frac{4}{3}\times \frac{4}{3}\times \frac{4}{3}\times \frac{4}{3}\times \frac{1}{3}\times \frac{1}\times \frac{1}{3}\times \frac{1}{3}\times \frac{1}{3}\times \frac{1}{3}\times \frac{1}{3}\times \frac{1}{3}\times \frac{1}{3}\

825 H elæodes Gill (from the olive colour of the gills, Gr elaios, olive, ados, appearance) a b ε

P plane, subumbonate, tan or buff St fibrillose, colour as P, becoming ferruginous G crowded, thin, white to olivaceous Flesh pale buff

laste bitter, odour sour Stumps, on the ground Oct $2\frac{1}{5} \times 2\frac{1}{5} \times \frac{1}{4}$ in Sometimes wholly ivory whitish Sometimes regarded as a form of 826

826 H fasciculare Quel (from the fasciculate habit) a b c

P flat, subobtuse, sulphur-yellow, mid sienna 5t hollow, fibrillose sulphur above, sienna below or wholly sulphur-yellow, often fibrilloso-unnulate G crowded, sulphur to green Flesh sulphur

Gregarious densely cuspitose Probably poisonous I aste and odour acrid, nauseous, bitter, schening Stumps, on the ground very common $\mathrm{April-Dec}\ 2_n\times 4_8\times \frac{1}{2}$ in There are many varieties Recorded from Glyncorrug collieries with stems 4 feet long

827 H instratum Mass (from the naked, uncovered pileus, instratus, uncovered) a

P convex, broadly umbonate, rugose, rich durk-brown St hollow, smooth and white above, fibrillose and pale brown below G adnato-ascending, brown to purple-brown, edge paler Flesh pale sienna-brownish

Stumps Autumn $1\frac{3}{8} \times 2_{\bar{8}} \times \chi_{\ell}^3$ m

828 H dispersum Quel (from the scattered habit of growth, disperse, to scatter) b

P expanded, viscid, obtuse, tawny-yellowish to purplish-umber St fistulose, sometimes rooting, silky-fibrillose, faintly ferruginous above, rich fuscous-brown below G distant, thick, brownish flesh-colour or shaded olive, with a white edge Flish pile yellow-tawny

Woods, pine, drv to marshy places, on the ground, on sawdust April-Nov ${\rm I}_8 \times 4\frac{1}{4} \times \frac{1}{8}$ in Variable in colour and habit

b Viscida

829 H incomptum Mass (from its simple, unadorned appearance, incomptus, rough, without ornament) a

P expanded, broadly gibbous, even, deep bay-brown, or orangetawny St hollow, equal, pale above, dark ferruginous below, brown-fibrillose and yellow tomentose G adnato-rounded, crowded, deep olive, purple-clouded

Stumps Autumn 4 × 3½ × ½ in

- 880 H codipus Sacc (from the swollen base of the stem, ordipous, with a swollen foot) α
- P hemispherical, mid umber, marg pallid, appendiculate with V St solid, semibulbous, fibrillose below the distant A, whitish, shaded pale sienna G adnate, umber
 - Solitary or in groups of two or three Sticks and dead leaves Feb $\frac{\pi}{4} \times 1\frac{1}{2} \times \frac{1}{4}$ in

c Velutinæ

- 831 H pseudostorea Rea (from its being at first considered the same as H Storea) a b
 - P convex, obtuse or subumbonate, then expanded fleshy, at first purplish-brown with mid darker, soon breaking up into large fibrillose purplish-brown scales, silky-white to pile fawn beneath, marg appendiculate and entire when young St hollow, equal or attenuate downwards, at first even, then silky-brown-fibrillose white above, pile yellowish below G adnate, at first white, then rose, becoming brown to purple-brown, not exuding drops of water
 - Lsurlly crespitose, sometimes solitary Taste insipid, somewhat disagreeable, odour strong, disagneeable. Woods, plantations, under larches Sept-\overline{\chi}\overline{2}_1 \times 4_1 \times \frac{1}{2} in This is the plant referred to Againsts Storia Fr by Berkeley, and afterwards named \(\frac{1}{2} \times \text{Lorial}\), var caspitosa by Cooke Sometimes confounded with 832
- 832 H laerymabundum Quel (from the tear like drops on the gills, lachrymabundus, tearful) a b c
 - P expanded, obtuse, innato-pilose whitish, then fuscous, sc darker, marg appendiculate with V . Sr hollow, fibrillososcily, fuscous-white G adnito-rounded, whitish to white-purple-brownish, studded with drops of water
 - Caspitose Stumps or on the ground yards Sept -D.c. $3 \times 3\frac{1}{2} \times \frac{1}{2}$ in Often confounded with 831 and 834. Used for inferior 1 etchip. Some times sold for the musbroom
- 833 H pyrotrichum Quel (from the fiery-red fibrils of the pileus, Gr pur, file, thria, a hair) a
 - P expanded, obtuse, pale bright vermilion-ochre, marg appendiculate with V St hollow, fibrillose, whitish to pale orange, sometimes imperfectly annulate with V G adnate, dull purplish-brown, studdled with drops of water
 - Cæspitose Woods, pine, beech, about roots Aug –Oct $3 \times 3\frac{1}{4} \times f_g$ in Var egregium Mass, with a densely shaggy stem
- 834 H velutinum Quel (from the velvety pileus of young examples, vellus, fleece) a b c
 - P expanded, obtusely umbonate, tawny, umber or sienna, marg appendiculate with V St hollow, fibrillose, whitish above, sienna or umber below G adfixed, brown-fuscous, darkspotted, studded with drops of water
 - Subcæspitose Taste insipid Stumps, common July-Oct 4 x 5 x ½ in Variable in stature, pileus sometimes 6 in in diam. Often confused with

832 Intermediate forms occur between this and 832 and 833 Some times sold for the mushroom. Used for inferior ketchup. Var leuocephalum. Mass. P mid rugged, much smaller than type.

d Flocculosæ

- 835 H cascum Quél (from its grey and white colours, cascus, old) a b Fragile
 - P hemispherical, obtuse, dull greyish-ochre or ochie, marg paler, appendiculate with white V Sr hollow, fibrillose, white G ascending, adnexo-rounded, and, at first pale dove-colour then blackish-brown, edge whitish
 - Giegarious or cuspitose l'astures July $1\frac{1}{2} \times 3\frac{1}{4} \times \frac{3}{18}$ in
- 836 H punctulatum Mass (from the squamuloso-punctate pileus) a P convex, pallid, shaded yellowish, brownish or white sulphur, sc dot-like, pale St stuffed, punctiform-squamulose from base to A, colour as P, sc faintly rufescent G sinuato-adnate, subcrowded, pale umber to whitish-sienna Flish colour as P Spars brown
 - Denselv cespitose Chips, sawdust, rotten twigs $1\frac{3}{4} \times 1\frac{3}{8} \times \frac{1}{4}$ in Berkeley Cooke and Massee assign this plant to the present position Kalchbrenner places it in Pholiota near 578 Fries includes it in Stropharia after 816

e Appendiculatæ

- 837 H LANARIPES Sacc (from the woolly stem lana, wool, pcs, a foot) a b c
 - f(s), a foot) abc P expanded, obtuse, thin, tough apt to split, somewhat hairy-scally, atomate, rugose, t(s) no ibrownish marg appendiculate with white V = St hollow fibrous, stricte above, subfibrillose or tomentoso squarrose below G adnato-ascending, at first white, then pale-brown, at length purplish-brown
 - Subcrespitose Soil in conservatories Tune-Tuly $3\frac{1}{4} \times 4\frac{1}{4} \times \frac{1}{4}$ in
- 838 H Candolleanum Quel (after Alphonse de Candolle) a b c
 - P flat, obtuse, depressed, smooth, apt to split, thin, brown, becoming white, mid ochieous St hollow, striate above, white G adnevo- or admito-rounded, ventricose, serulate, fuscous-cunnamon Flesh white
- 839 H appendiculatum Quél (from the appendiculate veil at the margin of the pileus) a b ε
 - P hygrophanous, expanded, rugose, thin, apt to split, atomate, faintly ochreous-white mid ochreous St fistulose, pruinate above, white G adnato-rounded, purplish flesh colour or brownish
 - Cæspitose Stumps, sticks, under elm, on the ground, common June-Oct $3\times 3^{\frac{3}{4}}\times ^{\frac{1}{6}}$ in I hinner and more fragile than 838

840 H felinum Sacc (from the tawny pileus, coloured like members of the cat genus, *Felis*) a b

P expanded, smooth, ochreous, biscuit-colour when dry fistulose, shining, striate above, white-floccose at base V annulate G dove-colour, shaded brown

Gregarious, subcrespitose $\;$ Parks, roadsides, etc., on the ground $\;$ Sept $1\times 1\frac{1}{2}\times \frac{1}{8}$ in

841 H leucotephrum Sacc (from the colour of the gills, Gr leukos, white, tephros, ash-coloured) a b c

P convexo-expanded, wrinkled, whitish or faint-salmon or ochreous-shaded St hollow, striate above, silky-fibrillose below, whitish A large G adnato-ascending, deep slate-black, edge whitish

Crespitose Base of ish trees Sept -Oct 2 × 43 × 1 in

842 H egenulum Sacc (from its poor appearance egenulus, poor) a P hemispherical, broadly umbonate, smooth, white marg finely striate St fistulose, minutely adpressedly scals, white faintly sienna-ochreous below G adnate with a tooch, ventricose, purple-umber, edge white

Solitary On the ground amongst grass May $1\frac{3}{8} \times 1\frac{3}{4} \times \frac{1}{8}$ in

843 H hydrophilum Quel (from its hygrophanous habit, Gr huder, water, philos, loving) a b

P flat, brittle, smooth, rugose, deep ferrugmous-sienn or trwnyochreous, paler when dru St hollow, fibrilloso-merly, shining, whitish above, faintly sienna below G adnexed or adnatorounded, crowded, exuding drops of water, brown or sienna

Cæspitose About and on trunks and stumps Oct –Nov $2_5 \times 4\frac{1}{4} \times \frac{1}{4}$ in Pileus sometimes 5 in in diam Sometimes placed in bolbitus

844 H pilulæforme Gill (from the appearance of the pileus, like a little ball, *pilula*) *a*

P even, smooth, fuscous, ochreous when dry St fistulose, white V annulate in young examples G adnexo-ascending, fuscous

Cæspitoso crowded Mossy tiunks, rare Autumn 3 × 11 × 16 in

XXXVII PSILOCYBE Quel

(From the naked pileus, owing to the usually obsolete veil, Gr psilos, naked, kube, a head)

Vetl very fugacious, usually obsolete. Hymenophore confluent with, but heterogeneous from the cartilaginous stem. Pilius more or less fleshy, smooth, the margin at first incurved. Stam central, fistulose or stuffed, subcartilaginous, rigid or tough, often rooting, simple. Gills becoming fuscous, brownish or purplish. (Fig. 46)

Nearly all the species grow on the ground and are gregarious and sometimes cæspitose, a few grow on dung, they are inodorous and none are edible

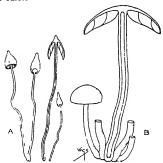


Fig 46 — A I silocyle semilanceata Quel B S spadicea Quel Entire and in section One half natural size

Psilocybe agrees in structure with Collybia, Leptonia, Naucoria and Panavlus Species 845—871

a Tenacs Verl rarely conspicuous Pileus pelliculose, slightly viscid in wet weather, bright in colour, becoming pale Stem with a thick tough bark, flexile, usually coloured

Gills ventricose, not decurrent

845—854 855—860

185

Gills plane, very broad behind, subdecurrent Gills ascending sublinear

855—860 861, 862

b Rigida Val obsolete Pileus scarcely pelliculose, flesh usually scissile, hygrophanous Stem rigid Gills adnexed, rarely adnate 863—871

a Tenaces

- 845 P sareocephala (all (from the fleshy pileus, Gr sarr, flesh, kephale, the head) a b
 - P expanded, obtuse, dry, pale tawny, salmon or pale ferruginous St whitish to rusty G idnito-rounded, salmon, then sooty Flish white, pale salmon in stem
 - Gregarious, subcrespitose Woods, grassy places, usually about or near stumps, elm Sept -N ov $4 \times 5\frac{3}{4} \times \frac{3}{4}$ in Resembles 230
- 845a P helvola Mass (from the yellowish colour, helvolus, pale vellow) a
 - P campanulate or conical, convex, then expanded, obtuse, even, glabious, tawny-ochreous, mid darker, cuticle often cracked into patches near mid St equal, hollow, fibrillose, often

twisted, white or tinged ochreous, base thickened, white-downy ${\cal G}$ adnate, then separating, broad, subdistant, purplish-umber, clouded, edge white

On the ground amongst grass Sept $1\frac{1}{2} \times 2\frac{3}{4} \times \frac{3}{15}$ in

846 P ericæa Quel (from the habitat, erica, heath) a b

P flat, obtuse or subumbonate, tawny-ferruginous or umber, ochre when dry S' smooth, subulky, tan above, brownish below, base white-villous G adnate, subdistant, blackish with a light edge

Gregarious Woods, pastures, rare May-Oct $1\frac{1}{4} \times 4\frac{1}{2} \times \frac{1}{8}$ in A smaller form occurs in wet places

847 P suberiema Sacc (from its partial resemblance to 846) a b
P plane, obtuse or subumbonate, tawny or whitish-yellow, paler
when dry St pallid or pale yellowish G adnato-sinuate,
blackish

Taste acid Fields, under firs June-Aug 25 × 23 × 13 in

848 P uda Gill (from the moist pileus, udus, moist) a b c

P flat, obtuse, smooth or wrinkled, brick-tawny or yellowish
St fibrillose tan above, pale tawny-ferruginous below
G adnato-sinuate, broad, fuscous-purple

Scattered Swampy places amongst Sphaçnum Oct -Nov 1½×3¾×½ in Gills sometimes remaining pallid and sterile

849 P canofaciens Mass (from the hoary appearance, canofaciens, making hoary) a b

P expanded, obtuse, umber, mid subareolate, sienna, marg darker with feeble traces of a fibrillose or arachnoid \(\) St equal, hollow, brittle, umber-greyish, sooty below, white scaly \(\) a dinato-ascending, broad, livid-brownish, purple clouded \(\) Cæspitose Kotten straw and rubbish \(\) May \(\) \(\) \(\) \(\) \(\) At \(\) \(

850 P areolata Sacc (from the cracked-areolate pileus) a b c Not buttle

P subexpanded, minutely fibrillose, white, then ochreous or fuscous SV fibrillose, striate, tan and pulverulent above, sienna below V fibrillose, exanescent G adnito-rounded, dull purple with a white edge

Densely coespitore Gardens, on wood May-Oct $1\frac{3}{4} \times 2\frac{1}{2} \times \frac{1}{4}$ in

851 P vireseens Mass (from the green tints, vireseens, green) a b
P expanded, at first minutely silky, cracking, bright dail-brown,
interstices of cracks clear pale verdiging-green, then yellowish
St downy, apex striate, pale green above, ferruginous below
G adnexed, subcrowded, smoky-purple with paler edge

Solitary Taste and odour none Rotten stumps and chips Autumn $\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$ in

852 P agraria Karst (from the habitat, ager, a field) a
P flat, obtuse or umbonate, white or ashy
St smooth, white

G adnate, ashy to fuscous Flesh white Near stumps Sept -Oct $1\frac{1}{4} \times 2\frac{3}{8} \times \frac{3}{16}$ in

- 853 P chondroderma Sacc (from the parchment-like pellicle of the pileus, Gr chondros, cartilage, derma, skin) a
 - P conico-campanulate, smooth, cracked, dark date-brown, marg jagged-appendiculate with V St fibrillose, pale sienna, darker below G ascending, adfixed, purplish-brown, edge

Woods, fir Sept 11 × 11 × 3 in Stains paper etc., yellow

- 854 P serobieola Sacc (from its habitat, scrobis, sawdust) a
 - P convex, umbilicato-depressed, whitish, marg undulate St attenuate downwards, fibrillose, colour as P G arcuatoadnate, brown, with a red tinge

Pine sawdust, branches Nov 14 × 13 × 3 in

- P ammophila Gill (from the habitat, Gr ammos, sand, philos, loving) a b
 - P capanded, subumbonate, sienna-buff marg striate St base clavate, apex striate, white to pale buff, half buried in sand G adnate or with a decurrent tooth, pale purplish, becoming slate-pulverulent with sporcs

Sea shores, amongst sand Aug -Sept 13 x 2 x 1/2 in

- 856 P coprophila Ouel (from the habitat, Gr kopros, dung,
 - thilds, loving) a ϵ P expanded, obtuse or subumbonate, downy, white, then rufescent St shaggy-flocculose, whitish G adnate very broad, crowded, fuscous
 - Amongst grass, rabbits dung on dung heaps, rare Oct -Jan 13 × 17 × 1 in Sometimes infesting mushroom beds
- 857 P bullacea Quel (from a fancied resemblance in the pileus, when young, to a knob, bulla) a b c
 - P expanded, subumbonate, duk tawny, tan when dry, marg appendiculate with V St subfibrillose, tawny or yellow, base fuscous-ferruginous, fibrilloso-annulate when young G adnate with a small sinus, very broad, crowded, fuscous-ferruginous

Gregarious Dung, rich soil, amongst Iolytrichum Ix X I X 1 in

- 858 P physaloides Ouél (from a fancied resemblance in the pileus to a bladder, Gr phusalis, a bladder, eidos, appearance) a b c
 - P flat, umbonate, fuscour purple St adpressedly fibrillose, date-brown below, paler above G adnato-decurrent, crowded, entricose, pallid ferruginous-fuscous
 - Kich grissy places, woods, on moss, horse dung, old walls, uncommon Feb - Sept 18 × 18 × 18 in Must not be confounded with 771
- 859 P atrorufa Quel (from the blackish-red pileus, ater, black, rufus, 1ed) a
 - P expanded, obtuse, black-rufous or purple-fuscous, mid darker, marg striate St at first subfibrillose, subpruinate

above, colour as P , base darker G adnate with a small tooth, umber to purple-umber

Woods, mixed Nov 11 × 21 × 11 in

- **860 P nuciseda** Mass (from the frequent habitat, nuts, nux, a nut, sedeo, to sit) a
 - P expanded, subumbonate, subsilky when dry, light yellow or shaded sienna, mid sienna St slightly attenuate downwards, fuscous, or white below G adnate, bload, ventricose, fuscous to umber-black

Beech and hazel nuts, chips, wood $1\frac{1}{8} \times 1\frac{1}{8} \times \frac{1}{16}$ in Habit of 771

- **861 P compta** Sicc (from the adorned pileus, sprinkled with minute shining spots, *comptus*, ornamented) a
 - P expanded, obtuse, pallid to ochreous marg striate, subcrenulate St flexuous, silky-shining, tan, faintly rufous below G adnato-ascending or adnexed, distant, rosy-umber

Woods, amongst grass, rare Sept-Oct 11 × 21 × 16 in

- 862 P semilanceata Quel (from a fancied resemblance in the pileus, as seen in vertical section to a lance head, semi, half, lancea, a spear) a b c
 - P acutely conscal, whitish-ochre mid pale marg slightly striate, slate, sometimes fuscous-shaded St flexuous, smooth, fibrilloso annulate when young, coloui as P, base pale sienna G adnexo-ascending, crowded, purplish to purple-black
 - Gregations Reputed poisonous Pristures, roads d.s., common Stem sometimes 6 in high Aug -Nov $\frac{1}{2} \times \frac{8}{8} \times \frac{1}{17}$ in Nu casuloscens Sace P subobtuse St more or less distinctly tinged with blue

b Rıgıdæ

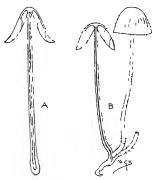
- 863 P canobrunnea Quel (from the greyish-brown pileus canus, hoary, brunneus, brown) a b
 - P plane, subviscid when moist, flesh-brown, pale clay when dry St rooting, squamulose, whitish G adnexed, crowded, broad, ventricose, brownish-purple
 - Solitary or laxly gregarious On the ground in sunny places, on scorched ground Autumn 2 × 1 g × 1 g in
- 864 P spadicea Quel (from the colour of the pileus spadiceus, date-brown) a b c
 - P plane, usually cracked, dark to ochreous-brown, becoming paler in patches St smooth, whitish, base pale sienna G adnexo-rounded, adnate or adnate with a tooth, crowded, brown
 - Laxly clustered Stumps, earth, manure heaps, amongst short grass, common Feb-Nov 28 × 4 × ½ m Var hygrophila Karst larger than type Var polycephala Call densely crowded

- 865 P squalens Karst (from its dirty colours, squalens, dirty) a P flat, pale livid-ferrugmous, pale dull clay-colour when dry St striate above, colour as P G adnato decurrent, crowded, cunamon-umber
 - Solitary or coespitose On and near trunks, rare $1\frac{3}{4} \times 2\frac{1}{4} \times \frac{1}{8}$ in
- 866 P cernua Quel (from the frequently drooping pileus, cernuo, to fall head foremost) a b c
 - P expunded, slightly wrinkled when dry, whitish St smooth, flexuous, colour as P G adnato-ascending, cinereous-blackish or slate-sprinkled
 - Solitary or gregarious, usually cospitose Dead wood, thips, leaves, lawns, uncommon Aug –Dec $1\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{8}$ in
- 867 P hebes Karst (from the obtuse pileus, hebes, blunt) a b
 - P becoming flat, striate when moist, lurid, obscure olive, pale when div St naked, whitish G adnexo-rounded, broad, crowded, brownish or brown
 - Usually solutary. Amongst grass and leaves, near chestnut trees, trunks Nov. $I_4^+ \times I_4^+ \times I_5^+$ in
- 868 P fænlseen Quel (from its habitat, meadows, fænsicia, hay-harvest) a b c
 - P components, obtuse, pale ferruginous-fuscous to deep umber, becoming paler in patches. St pulverulent, then naked, rufescent, sichna and or flesh-colour. G adnato-ascending, ventricose, separating from stem, umber to black-purple.
 - (regarious Fields, lawns, roadsides, manure, horse dung , common Feb-lec $\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{1r}$ in
- 869 P callosa Quel (from the tough stem callosus, having a hard $\sinh a b \epsilon$
 - P conico campanulate, obtuse, pale buff St smooth, paler than P G adnato-ascending, ventricose, sooty or purple-black
 - Scattered or in small groups. Fields, hwns, roadsides. Au_S –Oct $_{15}^{5}\times 2_{3}^{3}\times 3_{-}^{3}$ in
- 870 P elivensis Sacc (from the place where it was first observed, King's Cliffe, Northamptonshire) a b
 - P expanded shining-atomite, striate, pullid brown or ocine to white St silky, whitish G adnate, widely emerginate, venturesse, umber, edge white
 - Amongst gia s, on downs June-Oct 11 × 11 × 11 × 11 in
- 871 P catervata Mass (from its fasciculate habit, caterva, a troop)
 - P campanulate, obtuse, satiny, brittle, white St white G slightly adnexed, somewhat broad, crowded, purple-shaded or cinnamon, edge white
 - On the ground Oct \$ x 2h x 1/2 in

XXXVIII PSATHYRA Ouél

(From the friable substance, Gr psathuros, friable)

Vetl when present universal, floccoso-fibrillose, not annulate, sometimes obsolete Hymnophore confluent with, but heterogeneous from the cartilaginous stem Pilous conical or campanulate, then expanded, submembranous, margin at first straight and adpressed to



I ig 47—A section of I sath, ra compute Quel L, I liftons Succepture and in section One half natural size.

the stem, except 884 Stem central somewhat cartilaginous, fistulose, lustrous, fragile, simple Gills at first pale, becoming purple or fuscous Spores purple, brownish-purple, dark purple or dark brown (Fig. 47)

The species grow on the ground, or on rotten wood, they are slender, fragile, hygrophanous and with fugitive colouring

Psathyra agrees in structure with Mycena, Nolanea, Galera and Psathyrella Species 872—898

- a Conopilea Veil obsolete Pileus conico-campinulate Stem tense and straight, fistulose Gills usually adnexo-ascending, often free On the ground in grassy or damp places 872—877
- b Obtusatæ Veil obsolete Pileus campanulato-convex,
 becoming flat, smooth or atomate Gills plano- or arcuato-adfixed
 878—880
- c Fibrillose Pileus—except 884 and 888—and stem at first fibrillose or floccose from the veil Stem fistulose

881-893

a Conopilea

872 P elata Mass (from its long stem, elatus, tall) a b

P even, glabrous, atomate, dark brown, pale ochreous when dry St hollow, silky-shining, white G broadly adnate, crowded, purplish-brown

Amongst grass, on hedge banks Aug 2 x 78 x 1 in

873 P conopilea Quel (from the conical pileus) a b c

P even, smooth, whitish, greyish-brown or umber with marg tan St attenuite upwards, whitish, silvery-lustrous G slightly adneved, subventricose, dark slate or fuscous-purple

Griss) places, Lardens, dith bottoms, under beechts, rare Stot –Nov 1, \times 4½ \times ½ in Stem sometimes 6½ in long V in superba W G Sm, Agaratas m_ferbas Jungh larger P chestnut brown to buff

874 P mastigera Sacc (from the breast-like shape Gr mastos, the breast, gero, I bear) a b

P acutely umbornte, dark chestnut-brown, umber-tan when dry St fibrillose, furfurnecous or smooth, white G narrow, umber Flish pale brown

Amongst grass, roadsides July-Nov $\frac{7}{8} \times 3_8 \times \frac{1}{8}$ in

875 P glareosa Sacc (from the habitat, gravelly soil, glareosus, giavelly) a

P obtuse or umbonate, minutely tomentose, atomate, striate, grey, mid pale chestnut St brown, white fibrillose G broadly adnate, umber Flish brown

Gravelly soil after wet weather June \$ x 2\frac{1}{4} \times \frac{1}{16} in

876 P corrugis Quel (from the pileus, at length wrinkled, corrugis, having folds) a b c

P subumbonate or obtuse, smooth, substriate, whitish, pale rose, ochreous-tan or pale umber St smooth, colour as P G adnato-ascending or somewhat sinuate, pale, then purple-black or dark slate

Pastures, grassy places, open places in woods amongst grass and sticks, old muture patches, frequent April–Jan $14 \times 34 \times 36$ in Stem some times 5 in long Var vinous Alss. P ross vinous half way up Var gracius Mass more slender than type

876a P pellosperma W G Sm, Agaricus pellospermus Cooke (from the dark coloured spores, Gr pellos, dark coloured, sperma, a seed) a

P subcampanulate or subovate, even, then striate, sometimes rugose, white or ochreous-white, becoming fuliginous with age St fistulose, naked, nearly equal, white or as P G broad, free, much narrowed at the tips, cinereous, then fuliginous, at length black Flesh thin, white

On the ground Autumn 13 × 47 × 1 in

877. P gyroflexa Quél (from the weak flexuous stem, gyrus, a circle, flexus, bent) a b

P atomate, striate, whitish or pale grey, mid pale buff or rufescent St white, silky-shining G adnato-ascending, ventricose, greyish-purple to slate

Scattered or subcespitose Margins of woods, amongst rubbish Aug 1½ \times 2 \times 1/8 in

b Obtusata

878 P spadieeogrisea Quel (from the brown-grey pilcus, spadix, bay-brown, griseus, grey) a b c Watery, fragile

P even, pellucid-strinte to mid, date-brown, greyish and buff when dry St subpulverulent, striate above, whitish G adneved, crowded, narrow, umber-fuscous or brown

Solitary or gregarious, subcrespitose On trunks, old boards, chips, on the ground Aug. Nov. $\mathbf{1}_{1}^{2}\times \mathbf{3}_{1}^{2}\times \mathbf{1}_{1}^{2}$ in

879 P obtusata Gill (from the obtuse pileus) a b c

P even, brown-fuscous or pale umber, paler and strict at marg St fibrilloso-silky, not pulverulent, even above, whitish G adnate, broad, subdistant, ashy-brown or umber

Single or coespitose Woods, on the ground, on wood, trunks, oil, rise June-Dec $1\frac{\pi}{8} \times 2\frac{\pi}{8} \times \frac{\pi}{8}$ in Stem sometimes rooting

880 P neglecta Mass (from its having been overlooked) a b

P almost plane, even, glabrous, atomate, pale rufous, almost white when dry, mid pale clay St somewhat wavy, pellucid, prunose above, white, tinged pale rufous below G slightly attached, ventricose, crowded, pink then purple-brown

On the ground, gardens Oct -Nov 3 × 1 × 12 in

c Fibrillosæ

881 P frustulenta Sacc (from its fragility, breaking at a touch, frustulentus, full of pieces) a

P hygrophanous, glabrous, substriate, sicnna-tan, tan when dry St subwavy, whitish G adnato-ascending, crowded, brownish

Gravel in damp places Sept 11 × 21 × 17 in

882 P bifrons Sacc (from the two-coloured pileus, bifrons, with two faces) a b

P obtuse, súbwrinkled, ochreous-brown tinged with red, whitish when dry, evanescent white-fibrillose St subrooting, minutely satiny, fibrillose below, white G adnate, broad, ventricose, pink-cinereous, edge white

Sometimes two or three connate Woods, amongst sticks, twigs, chips, rare Aug-Sept $\mathbf{1}_{\mathbf{5}}^{\mathbf{1}} \times \mathbf{3}_{\mathbf{5}}^{\mathbf{4}} \times \mathbf{1}_{\mathbf{5}}^{\mathbf{4}}$ in Var semitineta Sace P vinous purple, and pale othre

- 883 P semivestita Sacc (from the pileus white-fibiillose halfway to the middle, semi, half, vestio, to clothe) a b
- P obtuse, chestnut-brown, tan when dry St fibrilloso-silky, whitish G adnato-ascending, grey, becoming umber
 - Solitary and large, or coespitose and smaller Rich pastures, waysides, woods Oct Solitary $2\frac{1}{4} \times 4\frac{3}{4} \times \frac{1}{8}$ in Coespitose $\frac{7}{4} \times 3\frac{1}{4} \times \frac{1}{16}$ in
- 884 P Loscosii Sacc (after Francisco Loscos) a b
 - P flat, ridiato-pitted, sulcato-wrinkled, moist, cracking, atomate, tan-umber St striate, twisted, subfibrillose, elastic, tan, white-pruinose above, rufescent below G adnate, ventricose, thin, purple-umber with pale edge Flesh sienna
 - Cæspitose Taste and odour slight, fungoid Gardens, on mushroom bed Nov $2 \times 7\frac{1}{4} \times \frac{3}{16}$ in
- 885 P fatua Quél (from its resemblance to its allies, fatuus, foolish) a
 - P rugose, at length smooth, dingy-ochreous, then whitish, mid sienna St striate and mealy above, becoming smooth, white G adnato-ascending, crowded, brown

Gardens Autumn 11 × 32 × 1 in

- 886 P fibrillosa Ouel (from the fibrillose covering) a b
 - P conical then flat, striate, becoming smooth, livid or whitish, the white fibrils becoming black with age or disappearing SY white squamulose on pale steel-grey ground, or spreading white-fibrilose G adnate, pale slate then purple-black
 - Solitary Woods, damp places, rotten branches, sticks and leaves , rare Oct $2\frac{1}{8} \times 2\frac{1}{8} \times 7\frac{3}{8}$ in
- 887 P Gordonii Gill (after the Marchioness of Huntly) a
 - P sulcato-striate, pale cinereous to white S' transversely undulate, white-prumose above, then shining, smooth, white G ascending, narrowly adnate, cinereous
 - Densely cospitose Odour faint to strong and nauseous Stumps, amongst chip. Oct $1_8 \times 2_2^1 \times \frac{1}{8}$ in
- 888 P helobia Sacc (from its habitat, Gr helos, a marsh, bios, life) a c P flat, subumbonate, radiato-rugose, mid with concentric elevated ridges, sooty-brown, becoming ochreous-salmon or reddish St reddish-umber, salmon when dry G adnate, sooty-brown Flesh pale pink

Woods Sept 21 × 53 × 3 in Allied to 884

- 889 P pennata Quél (from the feathery scales, penna, a feather)
 - P livid, whitish or pale brown , mid sienna , marg appendiculate with large white sc , then naked St villous, white pulverulent above, white G adnexo- or adnato-ascending, ventricose, fuscous-blackish
 - Gregarious Gardens, scorched ground, earth, burnt sawdust , rare June-Oct $1\frac{3}{8} \times 2\frac{8}{8} \times \frac{1}{8}$ in

- 890. P gossypina Gill (from its cotton-like fibrils, gossypium, cotton) a b c
 - P expanded, ochreous-clay, mid pale sienna, marg striate St whitsh-tomentose G adnexed, ventricose, white, then fuscous-black

Subcæspitose Woods, twigs, on the ground May-Oct $2\frac{1}{2} \times 2\frac{1}{8} \times \frac{3}{16}$ in

- 891 P noli-tangere Quél (from its fragility, breaking at a touch, noli tangere, do not touch) a b
 - P expanded, obtuse, hygrophanous, pale umber when large, dark fuscous when small, becoming pale, marg striate, appendiculate with sc St subnaked, even, grey-white above, fuscous or slate below G adnexo- or adnato-rounded, fuscous Flesh pale brownish

Gregarious Oak chips, amongst moss, damp sandy ground Sept-Dec $1 \times 1_8^2 \times \frac{1}{16}$ in

- 892 P mierorrhiza Sacc (from the small rooting stem, Gr mikros, small, rhiza, a root) a b c
 - P ochreous or rufous, at first yellow-pilose, then pale, atomate St attenuato-rooting, whitish-scaly G adnevo-ascending, black-brown

Gregarious Gardens, on the ground Sept 18 × 4 × 16 in

- 893 P urticæcola Sacc (from its habitat, nettle-roots urtica, a nettle, colo, to inhabit)
 - P white-flocculent, marg striate St white-flocculent G adnexo-ascending, rich chocolate

At the base of old nettle stems Aug $\frac{5}{16} \times 1 \times \frac{1}{16}$ in

SERIES V COPRINARII Fr

(From the habitat, Gr Lopros, dung)

Spores black Gills from the first separate, not cohering and becoming fluid as in Coprinus

Intermediate between the preceding series and Coprimis

Genera XXXIX-XLI

XXXIX ANELLARIA Karst

(From the annulus, anellus, a little ring)

Veil appendiculate at the margin of the pileus Hymenophore confluent with, but heterogeneous from the cartilaginous stem Pileus subfleshy, conico-campanulate, without striæ, shining when dry, not expanding, the margin exceeding the gills Stem central, lustrous, somewhat firm, fistulose, annulate Gills ascending, black or variegated slate-blackish, not deliquescent (Fig 48)

The species usually grow in rich grassy places or on dung, from summer to late autumn, often near towns and villages

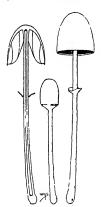


Fig. 48 — Anellaria separata Karst Entire and in section One third natural size

The nearest structural allies are found in Amanta, and the non-British genera Metraria and Locallina Species 894—896

- 894 A separata Karst (from its appearance, distinct from species placed near it) $a\ b\ c$
 - placed near $u_1 u_2 v_3$ P whitish to tan-ochreous, mid sienna-tinted St attenuate upwards, colour as P A distant, persistent, white G adnatoascending, broad, dark purplish-slate
 - In pastures on dung , common April-Dec $2\frac{1}{2}\times 6\frac{3}{4}\times \frac{1}{4}$ in Stem sometimes 8 in
- 895 A seitula Sacc (scatulus, handsome) a b
 - P dull pale ochre St white, base peronate, ending as a persistent A below mid G adnexo-ascending, ashy-grey to black Flesh white

On cow dung, on soil in a flower pot, Scarborough, 1885 $\frac{7}{1F} \times 1\frac{1}{4} \times \frac{1}{16}$ in

- 896 A fimiputris Karst (from its habitat, iotten dung, fimus, dung, putris, rotten) a b c
 - P innate-silky, pale umber to dark lead-colour, marg appendiculate with white V St colour as P, umber below A superior, small, imperfect G adfixo-ascending
 - Solitary, rarely crespitose Taste insipid Fields, gardens, horse dung, common April-Dec 14 X 58 X in Examples with a wrinkled pileus must not be confounded with 900

XL PANÆOLUS Quél

(From the variegated gills, Gr panaiolos, all variegated)

Veil appendiculate at the margin of the pileus Hymenophore confluent with, but heterogeneous from the cartilaginous stem Pileus subfleshy, conical without striæ, not expanding, the margin exceeding the gills, viscid when moist, lustrous when dry Stem central, lustrous, somewhat firm, fistulose except 905—8, simple

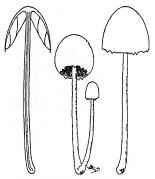


Fig 49 — Panaolus campanulatus Quel One half natural size Entire and in section

Gills ascending, black or variegated slate-blackish, not deliquescent (Fig. 49)

The species usually grow in rich grassy places or on dung from summer to late autumn, often near towns and villages

The nearest structural allies are found in Collybia, Leptonia, Naucoria and Psilocybe Species 897—908

Pileus conico-campanulate with a gelatinous-liquescent cuticle, viscid, shining when dry Stem fistulose, minutely so in 898 897—899

Pileus hemispherical to conico-campanulate, moist or damp, opaque, bibulous, somewhat flocculose when dry Stem fistulose 900, 901

Pileus hemispherical to conico-campanulate, dry, smooth, slightly shining, not zoned Stem fistulose 902—904

Pileus conical to campanulate, dry, smooth, zoned round the margin 905—908

- 897 P leucophanes Sacc (from its white appearance, Gr leukos, white, phaino, to appear) a b
 - P expanded, obtuse, innato-silky, white or faintly ochreous, marg appendiculate with V St mealy, fibrillose, white G adnato-ascending, black with white edge

Pastures, grassy places, manure heaps Aug –Nov $1\frac{1}{4} \times 3\frac{3}{8} \times \frac{1}{8}$ in

898 P egregius Sacc (egregius, distinguished) a b

P slightly agglutinato-downy, watery, virgate when dry, bright orange-brown, mid darker St solid, attenuate upwards, fibrous, fibrillose, splitting longitudinally, warm umber, base white-cottony G adnexo-ascending, ventricose, crowded, brownsh- or purple-black Flesh ochreous

Solitary Odour none On the ground, on horse-dung in fields Jan $2\frac{1}{4} \times 4\frac{3}{4} \times \frac{3}{8}$ in

899 P phalænarum Quél (from the variegated gills, like the wings of certain moths, Gr phallaina, a moth) a b c

P obtuse, clay-white, marg appendiculate with fugacious V St subnaked, tan-rufescent G adnexo-ascending, broad, ventricose, ashy-black

Rich pastures, on dung Sept -Oct 13 × 47 × 1 in

- 900 P retirugis Gill (from the net-like wrinkles on the pileus, rete, a net, ruea, a wrinkle) a b c
 - P obtuse, atomate, fleshy-tan, mid ochreous-tan or dark umber with paler marg, appendiculate with V St prunose, flesh-colour, then purplish, rufescent or cinereous G adfixoascending, cinereous-blackish
 - Sometimes fasciculate Dung, cow, manure heaps, woods , uncommon Feb –Nov $~1\frac{1}{2}~\times~4\frac{3}{4}~\times~\frac{1}{8}~\text{in}$
- 901 P sphinetrinus Quél (from the pileus, contracted, never expanded, Gr sphiekter, a muscle naturally contracted) a b c
 - P opaque, silky or fibrillose when dry, fuliginous or greyish-shaded, livid when dry, marg appendiculate with V St smooth, pruinose above, fuliginous-grey G adnato-ascending, crowded, cinereous-blackish

Pastures, on dung and on garden soil April-Nov $I \times 3\frac{1}{4} \times \frac{1}{18}$ in

- 902 P papilionaceus Quél (from the speckled pileus, as in some butterflies , ραρίμο, a butterfly) a b c
 - P rimoso-scaly when dry, du'l tan whitish or greyish, mid faintly ochreous St white pulverulent above, whitish or faintly ochreous G adnato or adnexo-ascending, broad, ventricose, blackish
 - Pastures, lawns, manured ground, dung , common $\,$ July-Nov $\,$ $\,$ $r_{4}^{2}\times 4_{4}^{1}\times \frac{1}{8}\,$ in
- 903 P campanulatus Quél (from the bell-shaped pileus , campanula, a little bell) a b c
 - P sometimes umbonate, not cracked, fuliginous-fuscous, or somewhat umber-slate with umber mid, sienna and umber or grey when dry St smooth, pruinose and grey above, rufescent

or purplish below $\ensuremath{\mathcal{V}}$ fugacious or obsolete $\ensuremath{\mathcal{G}}$ adnatoascending, crowded, grey and black, edge whitish

Pastures, rich ground, horse dung, amongst grass , common \quad June–Nov $_{1\frac{n}{8}}\times 4\frac{1}{4}\times \frac{1}{8}$ in

904 P caliginosus Gill (from its gloomy colour, caligo, gloom) a $b \in P$ obtuse, even, smooth, ochreous-brown or grey St naked, rufescent-brown, lighter above V feeble or obsolete G adnato- or adnexo-ascending, ventricose, fuliginous-black

Rich pastures, lawns Oct -Nov 18 × 23 × 16 in

905 P subbalteatus Sacc (from the somewhat zoned margin of the pileus, balteus, a band) a

P obtuse or subumbonate, hygrophanous, irregular, subwrinkled, dull fawn or pale ochreous, mid pale sienna St splitting longitudinally, white-fibrillose, red-brown and ochreous above, pale sienna below G adnato-ascending, ventricose, brownish edge toothed, white

Crespitose Borders of fields, on the ground Sept –Oct $\frac{3}{4} \times 3\frac{3}{4} \times \frac{1}{15}$ in 906 P acuminatus Quél (from the sharp apex of the pileus, acuminatus, sharp pointed) a b

P even, shining, flesh-tan, mid faint sienna & pruinose, tan above, fuscous below G adnexo-ascending, crowded, grey and black

Dung, roadsides Oct -Nov $\frac{7}{8} \times 1\frac{1}{2} \times \frac{1}{8}$ in

907 P fimicola Quel (from the usual habitat, fimus, dung, colo, to inhabit) a b c

P obtuse, smooth, opaque, fuliginous-grey, clay-hoary when dry, marg with a fuscous zone pruinose above, dingy below

St slightly silky-striate, white-grey and fuliginous

G adnato-ascending, ventricose, grey and fuliginous

Dung, rich pastures, rare Oct $\frac{7}{8} \times 3\frac{1}{4} \times \frac{1}{16}$ in

908 P cinetulus Sacc (from the zone round the margin of the pileus cinetus, a girdle) a

P even, smooth, reddish-cinnamon, marg zoned, dark brown St dull fuscous G ascending, adnexo-free, dusky- or olivaceus-black or slate

Dunghills after rain June-July $28 \times 4\frac{1}{4} \times \frac{1}{8}$ in

XLI PSATHYRELLA Quel

(Diminutive of Psathyra)

Veil almost obsolete Hymenophore confluent with, but heterogeneous from the cartilaginous stem Fileus membianous, strate, margin not exceeding the gills, straight and at first adpressed to the stem Stem central, fistulose, simple Gills adnate or free, not variegated or becoming fuscous or purple, not deliquescent Spores black or nearly so (Fig 50)

The species grow on rich ground, in gardens, by hedges and stumps, sometimes on wood

Psathyrella agrees in structure with Mycena, Nolanea, Galera and Species 909-920 Psathvra

Pileus conical to campanulate Stem tense, straight, fistulose

909-914

Pileus hemispherical to campanulate or conical Stem flexuous, prumate at the apex, fistulose 915--920



Fig 50 —Psathyrella subatrata Gill One half natural size Entire and in section

909 P subatrata Gill (from the blackish pileus, ater, black) a b P obtuse, subexpanded, umber-rufescent, pallid-rufescent when St smooth, whitish G adnexo-ascending, crowded, fuliginous, blackish-umber

Gregarious Rich ground, grassy places, woods Sept 21 × 58 × 1 in

910 P gracilis Quel (gracilis, slender) a b c

P obtuse, smooth, dark- or pale-fullginous or livin with pale shades of rose, $\tan w + \tan x$ St smooth, whitish G adnate, cinereous-blackish, edge rose

Gregarious, waysides, hedgerows, etc., common July-Oct $1\frac{7}{8} \times 4 \times \frac{1}{8}$ in

911 P hiaseens Quél (from the pileus opening in furrows, hasco, to gape) a

P expanded, obtuse, thin, cracked-revolute, white or warm tan, becoming pale tan-yellow, mid pale sienna St smooth, G adnate, distant, black

Grassy places, hedgerows, damp woods, rubbish heaps, rare Nov 18 × 37 × 1 in

912 P arata Sacc (from the furrowed pileus, aro, to plough) a

P attenuato-conical, deeply sulcate, sienna-brown St smooth, whitish or faint sienna-white G ascending free, purplish-black

Hedgerows Autumn $1\frac{7}{8} \times 5\frac{1}{4} \times \frac{1}{8}$ in

913 P trepida Gill (from its trembling habit, trepidus, trembling)
a b c

P obtuse, smooth, fuliginous, mid date-brown St naked, tan-whitish G adnate, crowded, fuliginous-black

Moist ground, bases of trunks, gardens Oct 7 × 3 × 1 n

914 P hydrophora Quél (from its hygrophanous substance, Gr hudor, water, phero, to carry) a b c

P expanded, obtuse, then cracked-revolute, mid rufous marg paler St white, studded with drops of moisture G adnate, crowded, black

Gardens Autumn $1\frac{3}{4} \times 3\frac{1}{2} \times \frac{1}{8}$ in

915 P caudata Quél (from the tail-like base of the stem cauda, a tail) a b c

P gibbous then flat, smooth, sometimes areolato-cracked, atomate, date-brown or umber St with rooting base, undulate on surface, white G adnate, ventricose, ashy-black or dull purplish-brown

Wooden pavement, rotten wood, rich soil, gardens, amongst dead leaves Sept -Dec 2\frac{3}{4} \times 4\frac{5}{6} \times \frac{1}{8} in

916 P prona Gill (from its frequent prostrate state, pronus, prostrate) a b c

P subexpanded, obtuse, subsilky, fuliginous, atomate and hoary when dry St smooth, whitish G adnate or adnexed, livid fuliginous, black-dotted

Grassy places , rare May-Oct $\frac{5}{8} \times 1\frac{7}{8} \times \frac{1}{18}$ in Var Smithu Vass P hemispherical $\frac{1}{8}$ in in diam

917 P empyreumatica Sacc (from its odour of burning, Gr empuros, scorched) a b

P hygrophanous, atomate, rufous, becoming pale St silky-furfuraceous, pale sienna G adnate with a tooth, distant, veined, rufous to brown-purple, edge pallid Flish coloui as St Wooden pavement Oct 1½ × 2½ × ½ in Resembles 591

918 P atomata Quél (from the atomate pileus) a b c

P obtuse, hygrophanous, livid, tan or pale flesh-colour, sometimes reddish St white G adnate, cinereous-blackish or purple-brown

Solitary or gregarious Woods, hedgerows, waysides, amongst leaves, common June-Jan 1 \times 2§ \times $\frac{1}{16}$ in

919 P crenata Gill (from the scalloped margin of the pileus, crenatus, scalloped) a b

P hygrophanous, atomate, subochreous, rufescent or flesh-colour, then pale, mid sometimes sienna St attenuate below,

whitish G adnato-ascending, dull brownish-purple to blackish

Amongst grass, amongst beech leaves with 1973 Nov $1\frac{1}{8} \times 2\frac{1}{8} \times \frac{1}{8}$ in

920 P disseminata Quél (from the scattered habit, dissemino, to scatter) a b c

P scurfy, then smooth, whitish or pale umber, then purple-grey and ashy, mid grey-umber St subscurfy, then smooth, whitish G adnato-ascending, blackish

Densely crowded, gregarious, cæspitose About decayed stumps, poplar, willow, piles, in hedgerows, on brick walls, heaps of weeds and rubbish, etc April-Nov 4 × 24 × 74 in

XLII COPRINUS Pers

(From the habitat, Gr kopros, dung)

Vul usually universal, floccose, furfuraceous or obsolete Hymenophore distinct from the stem Pileus at first cylindrical or ovate,

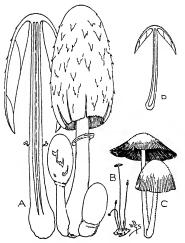


Fig 51—A Coprinus comatus Fr entire and in section B, C radiatus Fr c C domesticus Fr D, ditto in section One third natural size

usually floccose or scurfy, margin at first straight and adpressed to the stem, flesh thin to membranous Stem central, hollow, usually

attenuate upwards, annulate, volvate or simple, confluent with or distinct from the hymenophore Gills membranous linear or ventricose, at first white and closely pressed together, cohering, scissile, at length melting into black fluid Trama obsolete Spores oval, even, black or dark brown (Fig 51)

The species are of rapid growth, often ephemical They grow on rich and highly manured places in fields, parks, gardens and near human habitations, often on dung, sometimes on decaying wood, rotting straw, etc. Some are edible Species 921—963

Mr George Massee, in a revision of the genus (Ann Bot x (1896), p 123), establishes new sectional characters, and the sequence of the species, as here given, is somewhat altered

Pellic Losæ *Pileus* with a pellicle not opening into furrows over the gills, but becoming torn and revolute

- a Comate Pileus slightly fleshy, at first ovate, the cuticle torn into large or small scales from the concrete veil, margin striate or sulcate Stim annulate, volvate or both Gill's free or remote
 921—925
- b Atramentariæ Pikus slightly fleshy, at first ovate, dotted or spotted with innate scurfy squamules from the veil Stem imperfectly ridged-annulate at the base Gills free 926—928
- c Picacca Pileus submembranous, at first continuous, then broken up into usually large flocculose superficial scales —warts in 932 Stem simple Gills free 929—932
- d Tomentosa Pileus membranous, at first evanescent-floccose or layly villous from the veil, margin striate Stam simple Gills, except 936, free 933—937
- e Micacce Pileus membranous, covered with fine, evanescent scurf and minute glittering particles from the veil, margin striate or sulcate Stem simple, or with a slight basal annular ridge Gills reaching the stem, adocted in 988
 - 938--941
- f Glabratæ Pileus membranous, smooth, margin striate, veil obsolete Stem simple, smooth 942—946
- Vellformes Pileus very thin, without a pellicle, opening into furrows over the gills and becoming plicato-sulcate Vell present Stem thin, fistulose Gills melting into thin, black lines 947—963
 - g Cyclodae Pileus membranous, striate Stem annulate or volvate Gills free 947, 948
 - h Lanatulæ Puleus submembranous to membranous, clothed with superficial, separating floccules Stem simple Gills free or remote 949-955

1 Furfurella Puleus micaceous or furfuraceous, striate or sulcate Stem simple Gulls adnate, adnexed, free or remote

956---961

1 Hemerobiæ Pileus smooth Stem simple

962

k Basipedes Pileus flocculose Stem dilated, disc-like at the

Peli iculos &

a Comatæ

- 921 C comatus Pers (from the shaggy pileus, coma, a hair) a b P cylindrical, then expanded, white, sc large St fibrillose, white A ragged movable, evanescent Vo adnate, almost obsolete G white, through reddish and purple to black
 - Often crespitose Edible when young, used for inferior ketchup, sometimes candied with sugar, sold in American markets, at Boston, as the "English Mushroom" Gardens, parks, fields and roadsides often near human habitation, on the ground, on rotten leaves, frequent April-Nov $4\frac{1}{2} \times 8\frac{1}{4} \times \frac{3}{4}$ in
- 922 C ovatus Fr (from the egg-shaped pileus, ovum, an egg) a P at length expanded, densely imbricato-scaly, white, mid pale buff St flocculose, rooting, scalv A ragged, movable, evanescent Vo adnate, almost obsolete G white to umberblackish
 - Usually solitary Rich ground, pastures $3 \times 5\frac{1}{2} \times \frac{3}{8}$ in Intermediate forms occur between this and 921
- 923 C umbrinus Cooke & Mass (from the colour of the pileus) a
 - P campanulato-plane then revolute, dark umber, sc white St subrooting, bulbous from the Vo, lustious dark umber G black, edge white Flash pale umber
 - Manured ground Aug $2 \times 6\frac{1}{2} \times \frac{3}{16}$ in Perhaps a form of C stenocoleus Lindbl
- 924 C sterquilinus Fr (from the habitat, sterquilinum, a dunghill) a
 - P campanulato-expanded, whitish, marg pale umber, se small St whitish A inferior, sometimes forming an adnate Vo G slate-purple
- Dung, cow, manured grounds, dung heaps, rare July-Aug $2 \times 4\frac{3}{4} \times \frac{4}{15}$ in 925 C oblectus Fr (from its growing on—delighting in—dung, oblecto to delight) a
 - P expanded, minutely scaly, then silky-smooth, white then sienna, mid ochreous, marg dull purplish St silky-white Vo large, free, spreading G black
 - Newly made dunghills, manure-heaps, street-weepings Nov 1½ × ½½ ½ 1n. A close allv of 924 Mr C Crossland, who has found this plant at Hahfax, says that the pileus is covered with white silky scales and always passes from white through bright flesh colour to black, and the annulus sometimes projects nearly ½ inch from the stem In 924 the gills are at length ventriose, but in this plant, as described by Bolton, they are limear and slightly arcuate and pass from white through purple to black In 924 the stem turns black when bruised, but there is no change of colour in the Halifax plant

925a C squamosus Morg (from the scaly pileus and stem, squama, a scale) a

P submembranous, ovoid then expanded, cinereous, covered with persistent reddish-brown sc, becoming split and revolute St hollow, almost equal, smooth and white above, scaly as P below A median, small G free, ventricose, white, then reddish-brown and purple-brown, becoming black

Cæspitose Base of trunks, elm Sept 31 × 41 × 3 in

b Atramentariæ

- 926 C atramentarius Fr (from the ink-like fluid into which the gills deliquesce, atramentum, ink) a b c
 P campanulato-expanded, ribbed, sulcate, slate-white, then
 - P campanulato-expanded, ribbed, sulcate, slate-white, then slate-purplish St fibrillose, white, pale umber at base A forming a fugacious ridge near base of St G giey-umber to umber-purple and black
 - Cæspitose Said to be edible, used for inferior ketchup, preferred by some to \$21 Rich soil by grassy roadsides, near stumps, usually near human habitations, amongst rubbish, has appeared in abundance on burnt coffee, rich soil, does not grow on dung, common June-Nov 3½ × 6½ × ½ in A group of this fungus lifted a large mass of asphalt paving in Hampton Road in 1889, a similar occurrence took place at Dunstable in 1899
- 927 C soboliferus Fr (from its cæspitose habitat, sobolis, an offshoot, fero, to bear) a b
 - P irregularly conical, abruptly truncate, then expanded, ribbed, grey, mid pale sienna-brownish St furrowed, bluntly rooting, whitish A forming a fugacious ridge near base of St G dark brown-purplish or blackish
 - Cæspitose Base of rotten wooden palings, fences, stumps, elm Spring and Autumn 2½ × 8 × ½ in The mycelium produces two crops annually Intermediate forms between this and 926 occur Sometimes both forms grow in one group
- 928 C fuscescens Fr (from the dusky colour of the pileus, fuscus, dark, swarthy) a b
 - P campanulate, then revolute, somewhat ribbed, tan mid brownish, marg purplish St whitish A forming a fugacious ridge near base of St G purple-umber to black
 - Cæspitose Stumps, rotten wood, wood in cellars, elm, in woods , uncommon May-Dec $23 \times 45 \times 1$ in Var rimesosquamesus Cooke P cracked into angular squamose patches

c Picaceæ

- 929 C picaceus Fr (from the white patches on the black ground of the pileus, pica, a magpie) a b c
 - P campanulato-expanded, very smooth, then revolute St smooth, somewhat bulbous, biscuit, furfuraceous below G ventricose, grey, then black
 - Somewhat cæsputose Considered poisonous Odour often fetid Grassy places, roadsides, borders of woods, beech, rarely on rotten wood , rare Sept-Dec. $4 \times 11 \times \frac{1}{2}$ in

- 930 C aphthosus Fr (from the pileus, like a "thrush"-diseased tongue, Gr aphthas, the "thrush") a b
 - P campanulate, pale dull ochreous, sc darker, grey-brown or dull sienna St fibrillose, glossy white G adnate, linear, black
 - Subcæspitose Hollow trees, wood in cellars, kitchens, rare Autumn $1\frac{1}{4} \times 3\frac{1}{4} \times \frac{3}{12} \times \frac{3}{12}$ in Var Boltonu Mass P repand, olivaceous
- 931 C floeeulosus Fr (from the white-floccose scales of the pileus) a P campanulate, pale purplish-grey-tan, mid brownish, marg striate St whitish G slate-purple to fuscous-black

Usually solitary, sometimes cæspitose Pastures, gardens , rare June–Sept $4 \times 5 \times \frac{2}{3}$ in

982 C similis B & Br (from its resemblance to 980, similis, like) a

P campanulate, biscuit-white, sc wart-like, acute, brownish at apex marg striate St white G adnate, sublinear, brownish near edge

Trunks of dead trees Sept $1\frac{1}{2} \times 3 \times \frac{1}{8}$ in

d Tomentosæ

- 933 C exstinctorius Fr (from the pileus, shaped like an extinguisher, exstinctor) a b c
 - P campanulate, tan- or ochreous-white, mid livid, marg splitting St subrooting, becoming smooth whitish G lanceolate, fuscous-blackish to black
 - On the ground, sandy places, about trunks, ash Sept $3 \times 6 \times \frac{1}{4}$ in
- 934 C fimetarius Fr (from the habitat, fimetum, a dunghill) a b c P campanulato expanded, then cracked and revolute, white-floccose, becoming grey-slate and black St subrooting, white villous G narrow-lanceolate, black
 - Frequently clustered, sometimes solitary Dung, horse, rich soil, common April-Oct $28 \times 8\frac{1}{4} \times \frac{1}{4}$ in Var fullating Fr P soon naked and black Dunghills, rich meadows Var macrorh zus Fr St bulbous, rooting Var cinterius Fr P asby grey
- 935 C tomentosus Fr (from the downy pileus , tomentum, down) a b P campanulato-expanded, flocculose, grey-white St white-villous G narrow-lanceolate, fuscous-blackish, edge at first white

Subcrespitose Dung, rich pastures, gardens Sept $2\frac{1}{4} \times 3 \times \frac{3}{18}$ in

- 936 C niveus Fr (from the snow-white pileus, nix, nivis, snow) a b c P at length flat, revolute, mealy-flocose or squamulose St white-downy, sometimes imperfectly annulate G adnexed or adnate, blackish to black
 - Cæspitose Dung, horse, deer, sometimes invadirg mushroom beds June-Dec $2\frac{1}{4} \times 4\frac{1}{2} \times \frac{3}{16}$ in There is a var with white gills and (when present) colourless spores

- 986a C roseotinetus Rea (from the rose-coloured meal on the pileus and stem) α
 - P membranous, cylindrical, then expanded and revolute, umbonate, fuscous, densely powdered with deep rose-coloured meal, marg sulcate St hollow, sembulbous below, when young powdered as P, less so at maturity, base white-floccose G adnexed, at first white, becoming black
 - On the ground Aug $1\frac{1}{8} \times 2\frac{3}{8} \times \frac{1}{10}$ in Allied to 936 and 946a
- 987 C cothurnatus Godey in Gill (from the stem, sheathed with woolly squamules at the base, as if buskmed, cothurnus, a buskin) a b
 - P conico-expanded, revolute, reddish-white or pale buff St white G narrow lanceolate, salmon to blackish

Dung, cow Autumn $1\frac{1}{4} \times 1\frac{7}{8} \times \frac{1}{8}$ in

e Micacea

- 938 C mieaceus Fr (from the minute shining particles on the pileus, mica, a shining grain) a b c
 - P campanulato expanded, lobed, splitting, yellor ferruginous, mid darker, marg plicate, becoming purple-brown 5t whitesilky or fibrillose, with an annular ridge near base, white or pale ochreous-whitish G adnexed, purple-brown to dark slate
 - Densely clustered Amongst grass, at base of stumps and posts gardens, common Jan–Nov $2\frac{1}{2} \times 7 \times \frac{1}{2}$ s in 1wo to three crops annually Pileus sometimes white
- 938a C truncorum Fr (from its habitat, tree-trunks) a
 - P at first globose, then campanulate, densely covered with micaceous meal, soon naked, then tawny ochreous marg striate, not becoming sulcate St glabrous, hollow, white G free, rosy, then black
 - Rotten willows, etc $1\frac{1}{4} \times 2\frac{1}{8} \times \frac{1}{8}$ in Distinguished from 938 by the P being at first globose, with marg strate, not plicate, and with free rosy gills
- 989 C aratus B & Br (from a fancied resemblance in the sulcate pileus to furrows, are to plough) a b
 - P campanulate then revolute, umber St smooth or silky, with a slight annular ridge near base, white, pale sienna-tan within G lanceolate, dark brown to purple-brown and black
 - Solitary Hollow trees, rich ground, dunghills May-Aug 2\frac{3}{4} \times 6\frac{1}{2} \times \frac{1}{4} in
- 940 C radians Fr (from the radiating mycelium at the base of the stem) a b c
 - P campanulato-expanded, then revolute, tawny mid sienna SI at first with an annular ridge, then smooth, white or faintly ochreous G lanceolate, riddish-purplish-brown to violaceous-black
 - Subcæspitose Damp plaster walls, sculleries, cracks in ceilings, uncommon Jan July = 1½ × 4½ × ½ in The usually white or olive ochr. mycelium is sometimes black, resembling radiating threads of black silk

- 941 C papillatus Fr (from the minute umbo on the pileus, papilla, a teat) a b
 - P campanulato-flat, then revolute, um prominent, ochreousumber, mid darker St smooth, flocculose below, whitish G ventricose, blackish
 - On the ground, amongst grass, dung June $\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{4}$ in Less fugacious than other Coprimi Var oxygena Fr, whitish or greyish P and Sr spyringly flocculose

f Glabratæ

- 942 C alternatus Fr (from the strice of the pileus, alternately broad and narrow) a c
 - P hemispherical, whitish mid umber, sometimes pale St whitish G adnate, narrow, purple-black to black Subcæspitose On the ground $1\frac{1}{2} \times 4\frac{1}{4} \times \frac{3}{12}$ in
- 948 C deliquescens Fr (from the dissolving gills, deliquesco, to dissolve) a c
 - P campunulato-expanded, grey or livid marg granulosopunctate, faintly ochreous St shining white G free, slate to blackish
 - Subcrspitose Stumps, amongst fallen leaves, thatch, frequent Aug Sept $2\frac{1}{4} \times 4 \times \frac{1}{16}$ in
- 944 C* tardus Karst (from its sometimes late appearance, tardus, slow, late) a b
 - P campanulato-expanded, viscid, bright brown to pale ochreoustan SI thinly pruinose, shining white, minutely striate above, woolly below G adnexed, brown to shining black
 - Densely respitore Odour none On the ground Oct $2\frac{1}{6}\times6\frac{1}{4}\times\frac{3}{16}$ in Brittle, hygrophanous
- 945 C digitalis Fr (from the finger-like voung state, digitus, a finger) a
 - P conico-hemispherical, faint ochre, mid sienna, then yellowishgrey or olive tinted St faint ochreous-white G adnexed, blackish
 - Tufted On the ground, woody places Autumn $1\frac{1}{4} \times 4\frac{1}{4} \times \frac{3}{16}$ in
- 946 C congregatus Fr (from the densely cæspitose habit), a b c P campanulato-expanded, viscid, ochreous, raid sienna St faintly ochreous-white G adnexo-free, linear, black On the ground by roadsides, hothouse Out -Nov 1 x 1⅓ x x in

VELIFORMES

g Cyclodeæ

946a C dilectus Fr (from its beauty, dilectus, beloved) a b

P cylindrical, then campanulate, obtuse, floccose or mealy, rosywhite, then pale, tawny, marg finely striate, at length splitting and becoming it volute and naked SY hollow, whitish

sprinkled rosy-pulverulent Vo reduced to whitish spreading sq G free, sublanceolate, reddish-brown, then black

Coespitose On the ground, on dead and on partially buried hawthorn sticks Nov $\frac{7}{8} \times 2\frac{3}{8} \times \frac{7}{10}$ in Alhed to 936a Differing from 925 in very rudimentary volva and generally smaller size

947 C Hendersonii Fr (after J L Henderson) a b c

P campanulato-expanded, minutely granular, tan, mid sienna, marg grey St tan A inferior, erect G subdistant, black, edge white

Hotbeds, in fields on dung, horse, cow, rare Feb -Sept $\frac{1}{2} \times 1 \times \frac{1}{32}$ in

947a C Bresadolæ Schulz (after J Bresadola)

P subcylindrical, membranous, greyish-white, faintly brownish at mid SI hollow, attenuate upwards, glabrous, white A deciduous G narrow, crowded, black, with a white edge Gregarious Odour none On wood, squared wood, near woods $\$ \times 4^3 \times \frac{1}{8}$ in Not unlike a small 928, but whiter in colour

948 C volvaceominimus Crossl (from its volva and small size) a P campanulate, ashy-grey, white-squamulose, mid darker St hyaline G adnexo-free, linear, blackish-purple Decaying straw on dunghills t2. t3. t3. t4. t5. t6.

h Lanatula

- 949 C lagopus Fr (from the woolly stem, like a hare's foot, Gr lagopous) a b
 - P campanulato-expanded, whitish or greyish, mid sienna St densely white-woolly G remote, linear, black
 - Sometimes conspitose Inodorous Rich soil, dung, rotten wood, shady places in woods, rooting in rotten sawdust, rare July-Oct $2\frac{1}{4} \times 5\frac{1}{2} \times \frac{1}{4}$ in
- 950 C narcoticus Fr (from the opium-like odour) a b
 - P campanulato-expanded, then revolute, villous-scaly, then naked, white or greyish, mid pale sienna St villous, then smooth, faintly ochreous-white G lanceolate, blackish
 - Odour very powerful, like opium, but fetid, or narcotic-alkaline, like 1211 Manure-heaps Oct I \times 14 \times 15 in
- 951 C tuberosus Quel (from the tuber at the base of the stem) a P campanulato-expanded, then revolute, striate, white-pulverulent St attenuate above and below, villous-white, springing from a comparatively large sclerotium G linear, violet-black

Dung, cow, decaying vegetable matter Oct –Dec $\frac{3}{8} \times 2\frac{3}{4} \times \frac{1}{18}$ in

- 952 C macrocephalus Berk (from the long-headed young state, Gr makros, long, kephale, the head) a
 - P campanulate, slate, mid brown, white-scaly St downy, sprinkled with fine spreading fibres, dull white G linear, black

Subcæspitose Putrid dung, rare March-Sept I x 2 x 18 in

- 953 C nyethemerus Fr (from its length of life, a night and day, Gr nuchthemeron) a b
 - P at length flat, then revolute, furturaceo-flocculose, then naked, grey, mid sienna St flaccid, smooth, white G linear, blackish
 - Subcæspitose Dun ς , manured ground, decayed straw, tan , rare July-Oct $1\frac{1}{5} \times 3 \times \frac{1}{3}$ in Sometimes very small
- 958a C cordisporus Gibbs (from the heart-shaped spores, cor, the heart, Gr sporos, a seed) α
 - P cylindrico-ovate, then expanded and upturned, very thin, plicato-sulcate, marg crenate, whitish or pallid ochraceous, furfuraceo-papillose and tawny at mid St filiform, glabrous, except at the densely strigoso-squamulose base, whitish hyaline G free, somewhat narrow Speris heart-shaped, compressed

Dung, horse, sheep, rabbit April $_{15}^{5} \times 1 \times _{32}^{1}$ in

- 954 C radiatus Pers (from the radiating striæ or furrows of the pileus) a b c
 - P at length flat, downy, then naked, whitish, soon translucent, mid pinkish-sienna St minutely pruinate or smooth, hyaline G few, pallid-blackish
 - In troops In fields on dung, horse, cow, common May-Nov & x 3 x 1/2 in
 Often minute
- 954a C Gibbsii Mass & Crossl (after Thomas Gibbs of Sheffield, the first observer) a
 - P homospherical, then expanded, striate, glabrous, minutely atomate, pale ochreous or very pale buff, mid darker St very slender, glabrous, pellucid shining white, attached by a few white strands of mycelium G adnate, 5-7 in number
 - Dung, sheep, horse. Nov 1/2 in high Probably the smallest againe known, differs from 954 in its smaller size, glabrous pileus and stem, and in its circular, compressed spores
- 955 C Spraguel Berk & Curt (after Charles J Sprague) a P campanulato-expanded, tomentose, grey, mid sienna St pale cinnamon G few, narrow, grey-black

Gardens July $\frac{3}{4} \times 2\frac{1}{5} \times \frac{1}{16}$ in

ı Furfurellæ

- 956 C domestieus Fr (from its usual habitat, domus, a house) a b c
 P campanulato-expanded, furfuraceous, whitsh, greyish or
 brownish, mid sicnna St adpressedly silky, white
 G adnexed, linear, reddish to fuscous-blackish
 - Often exspitose In and near human habitations, greenhouses, gardens, cellars, cuploards, ceilargs, under floors, on burnt ground matting, damp carpets, rubbish, etc., frequent April-Dec $3 \times 3\frac{1}{2} \times \frac{1}{4}$ in Sometimes very light in colour

- 957. C stereorarius Fr (from the habitat, stercus, dung) a b c
 - P campanulato-expanded, then revolute, clad with dense white micaceous meal, mid pale sienna, marg faint greyish or brownish St pruinate, white G adnexed, narrow, black
 - Rich soil, dung roadsides 1½ × 4½ × ½ in Brefeld illustrates this plant as growing from a sclerotium Must not be confused with 936, which is usually much smaller and with a white floccose pileus
- 957a C stellaris Quél (from the pileus splitting in a star-like manner) a
 - P ovoid then campanulate, striate, afterwards split in star-shape and crowned with points formed of minute diaphanous vesciles, white, becoming grev St filiform, fistulose, hyaline, velvety with long silky hairs, white G narrow, adnexed, attenuate, greyish then sooty brown
 - Dung, fox, man Spring and Summer 10 x 8 x 10 in
- 958 C ephemerus Fr (from its length of life, Gr cphemeros, lasting for a day) a b c
 - P campanulato-expanded, delicately scurfy, white mid prominent, faint sienna, marg greyish St smooth, whitish, G adnexed, linear, fuscous then black
 - Dunghills, manured ground, roadsides, common May-(lot $1\frac{1}{8} \times 2\frac{3}{4} \times \frac{3}{4}$ in Must not be confounded with 980, which has a depressed disc to the pileus
- 958a C velox Godev in Gill (from its rapid growth, zelox, swift) a P obovite, striate then plicato-sulcate, scuify between the furrows and on the mid, grey St white-floccose G narrow, grey then black
 - Dung, ox, horse $\frac{3}{8} \times 2\frac{3}{8} \times \frac{1}{20}$ in Must not be mistaken for 954a.
- 958b C aquatilis Peck (from its habitat, watery places, aqua, water) a
 - P orate, then campanulate, coarsely sulcate to mid, at first somewhat furfuraceous, when young pale orange, then redbrown mid darker St somewhat swollen at base, hollow, smooth below, pulverulent above, dull white G adnexed, grey then black Flesh in P pale orange
 - Decaying twigs, moss, Lucula sylvatica, etc., partly submerged in shaded swamps Tune $\mathbf{I} \times 2\frac{1}{18} \times \frac{1}{12}$ in
- 959 C sociatus Fr (from its habit, growing in groups, socio, to associate) a
 - P at length expanded, slightly scurfy, umbilicate, fuscous, mid brown, becoming pale St white G adneved, ashy-black Damp, loose soil, gardens, walls Oct 1½ × 2 in
- 960 C plicatilis Fr (from the folds or furrows of the pileus, plico, to fold) a b c
 - P expanded, grey and livid-umber, mid depressed, sienna St smooth, pallid to ochreous G iemote, linear, slate
 - Pastures, gardens, roadsides, under trees, woods, common April-Oct $1\frac{1}{8} \times 4 \times \frac{1}{18}$ in Sometimes very small

961 C filiformis B & Br (from the thread-like stem, filum, a thread) a

P campanulato-expanded, grey, white-mealy, mid sienna St pallid or white G linear, adnate, blackish

On the ground in woods Sept 1 × 15 × 11 in

1 Hemerobiæ

962 C hemerobius Fr (from the length of its life—one day, Gr homera, a day, bios, life) a

P cumpanulato-expanded, umber St smooth, pallid G adnate, linear, blackish

k Basipedes

963 C PLATIPLS Berk in Cooke (from the basal disc, Gr platus, broad, pous, a foot) a

P campunulato-expanded, white, then ochreous, mid umber St even, whitish G free, narrow, distant, white Pulm stems in conservatories $\frac{3}{2}n \times \frac{6}{2}n \times \frac{3}{2}n$ in

XLIII BOLBITIUS Fr

(From a frequent habitat of the species, Gr bolbiton, cow-dung)

Veil judimentary, indicated by squamules on the pileus or stem, or obsolete Hymenophore distinct from the stem Pileus moist,

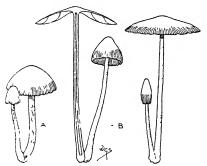


Fig 32 -A, Bolbitius Boltonii Fr B, B fragilis Fr, entire and in section One half natural size

mucid or viscid, fleshy-membranous to membranous, at first conical or ovate with the margin adpressed to the stem, usually yellow or

salmon, margin striate or sulcate Stem central, simple, equal or attenuate upwards, fistulose Gills adnexed or free, membranous, becoming moist, not deliquescing Sporcs somewhat ferruginous or salmon (Fig 52)

A group of species resembling the Coprim in habit and short life, but not deliquescing. They chiefly grow on dung or manured ground, often near and in roads, frequently near towns, villages and human habitations. None are edible. Species 964—973

964. B grandiuseulus Cooke & Mass (from its well-grown appearance, grandiuseulus, well-grown) a b

P campanulato-ev panded, papillose, ochreous-tan, mid brownish-orange, marg whitish-salmon St white G linear, adnexed or free, orange or rusty-ochre

Amongst grass Autumn 2 x 4 1 x 1 in

965 B flavidus Mass (flavus, light yellow) a b

P campanulato-expanded, glutinous, ohvaceous-ochre, mid somewhat elevated, sienna, marg striate S' pale yellow within and without, fibrillose below, faintly ohivaceous V fugacious, white G adnexo-free, white, yellow then dusky brown

Dunghills after rain, rotten cloth in wood June–Aug $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2} \times 3^{8}$ in "Whole plant dissolves in a brown jelly, 'Lolton

966 B Boltonii Fr (after James Bolton of Halifax) a b

P flat, sulcate, viscid, sulphur-white, then dull salmon-whitish, mid somewhat depressed St flocose, sulphur-white V fugacious G subadnate, white to yellow, pale dull salmon or livid brown

Heaps of leaves and dung May-Sept 18 × 3 × 1 in

967 B vitellinus Fr (from the colour of the pileus, like yoke of egg, vitellus) a

P campanulate, lobed, sulcate, viscid St white squamulose, faint sulphur at base G slightly adnexed or free, ochreoustan

Rich pastures, dung, horse Autumn $1\frac{1}{2} \times 3\frac{1}{8} \times \frac{3}{16}$ in

968 B fragilis Fr (from its fragility) a b c

P flat, viscid, sulphur-white, straw or yellow St at first covered with fine matted down, colour as P G attenuato-adnexed, yellow, faintly olivaceous then pale cinnamon

Road drift and dung, horse, roadsides, common April-Nov $2\frac{1}{4} \times 4\frac{1}{4} \times \frac{1}{8}$ in

969 B titubans Fr (from its tremulous habit, titubans, shaking) $a\ b\ c$

P flat, subdepressed, viscid, faint salmon-purplish, mid faintly ochreous St even, shining-yellowish, sometimes white, squamulose at base G adnexed, narrow, colour as P

Odour unpleasant Grassy richly manured soil, mushroom beds, by rotten stumps, common May-Oct 2 × 3½ × ½ in

970 B apicalis W G Sm in Cooke (from the well defined apex of the pileus) α δ

P control, plicate to apical disc, tan-sienna or tan-umber, mid abruptly ochreous St striate, minutely pruinose, salmonwhitish G free, ventricose, sienna

Pastures June $\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{16}$ in

971 B NIVEUS Mass (from the white pileus, niveus, snowy) a b P camprinulato-evpanded, striate halfway, subumbonate, slightly viscid mid cracked-areolate, faint ochre St clavato-bulbous, striate above, meally-pruinose, white G free to adnate, whitish to rufescent salmon

On earth, in palmhouse at Kew $1\frac{1}{4} \times 4\frac{1}{4} \times \frac{1}{8}$ in Very delicate and fragile

972 B tener Berk (from its tender substance, tener, tender) a b
P smooth, even, white, mid faintly ochrous, marg faint
salmon, sometimes wholly salmon St bulbous, white G
adneyed, salmon

Rich grass ground , uncommon May-Sept I \times 3% \times 1% in Sometimes 8 ins high

973 B RIVLLOSUS B & Br (from the rivulose pileus) a

P campanulate, dull tan or clay St white G free, narrow,
cinnamon

Earth in orchid house July 12 × 3 × 1 in

XLIV CORTINARIUS Fr

(From the cortina or veil)

Vail single, partially double or double. When single there is only an arachnoid cortina extending from the margin of the pileus to the stem, on the latter of which it often forms a more or less perfect fibrillose zone. When partially double the pileus and stem are more or less fibrous and the arachnoid cortina distinct. When double the whole plant is enveloped in infancy in a veil of gluten from which the arachnoid cortina is distinct. Hymenophore continuous with the stem. Pileus more or less fleshy. Stem central, more or less viscid, annulate from the veil or fibrillose-zoned from the cortina, annulus and zone often evanescent. Gills usually adnate, but sometimes adnexed, free or sinuate with a decurrent tooth, membranous, persistent, and, at first often purple or blue changing to cinnamon—from the spores. Spores the colour of iron-rust, rusty-ochre, somewhat ochreous or pale or dark cinnamon.

The species are variable in size and changeable in colour, purple and blue being common in infancy, they present a different appearance in different stages of growth and according as they are moist or dry, young as well as mature examples must therefore be studied All are terrestrial except 1140, which sometimes grows on wood

Some species of Phohota and Flammula somewhat resemble the

Cortinaru, but these usually grow upon stumps and are structurally distinct

Species 974—1167

SUBGENUS I PHLEGMACIUM Veil partial Pileus viscid Stem dry 974—1021

Subgenus 2 Myxacium Veil universal Pileus glutinous Stem glutinous 1022--1034

Subgenus 3 Inoloma Veil single Pileus fleshy, silky or fibrillose, then smooth Stem somewhat bulbous Not hygrophanous 1035—1057

Subgenus 4 **Dermocybe** Veil single, fibrillose Pileus thinly fleshy, innato-silky, then smooth, dry Stem equal Not hygiophanous 1058—1085

Subgenus 5 **Telamonia** Veil universal, somewhat double Pileus thin, moist, smooth or sprinkled with whitish fibres Stem annulate or peronate with scales Hygrophanous 1086—1128

Subgenus 6 Hydrocybe Veil thin, fibrillose Pileus smooth or superficially white-fibrillose, not viscid, changing colour when dry Stem somewhat rigid, sometimes irregularly annulatozoned 1129—1167

SUBGENUS I PHLEGMACIUM

(From the clammy pileus, Gr phlegma, shiny moisture)

Veil partial, arachnoid, dry Pileus equally fleshy, with a con-

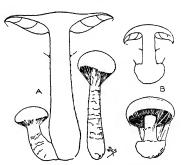


Fig 53—A Cortinarius (Phlegmacium) triumphans Fi B C (Phlegmacium) fulmineus Fr Entire and in section One third natural size

tinuous viscid pellicle Stem firm, dry, usually solid, more or less zoned with the cortina (Fig 53)

а	Cliduchia: Partial veil depending in the form of a ring from the apex of the nearly equal or clavate stem
	Gills palled then clay-colour 974—980
	Gills violaceous or purplish then cinnamon 981—985
	Gills yellow, cinnamon, ferruginous, not at first whitish or violaceous 986, 987 Gills olivaceous 988—990
ь	Scaura Stem fleshy-fibrous, marginato-bulbous, rounded bulbous in 988 and 1007 Cortina commonly inferior, arising from the margin of the bulb Gulls more or less sinuate
	Gills whitish, then clay-colour or pale cinnamon 991—994

Gills violaceous, dark blue, purplish, then pale cinnamon
995—998
Gills ferrymous, towny or velloy

Gills ferruginous, tawny or yellow 999—1005
Gills olivaceous 1006—1009

c Elastica Veil simple, thin, fugacious, median or inferior Pileus susually somewhat thin, often hygrophanous Stem commonly thin, not usually bulbous, generally attenuate upwards, rigid-elastic, externally subcartilaginous, lustrous, usually becoming hollow

*Gills whitish, then clay-colour or dull cinnamon
Gills violaceous, purplish or flesh-coloured
Gills usually ochre, tawny or ferruginous

1010—1014
1015—1017
1018—1021

a Cliduchiæ

- 974 C triumphans Fr (from the appearance of the stem, like an enwreathed triumphal column) $a\ b\ c$
 - P convexo-plane, obtuse, yellow, marg fringed with Co St striate, yellow, with transverse evanescent bands of sienna rings and an imperfect Z G emarginate, crowded Flesh white or sulphur

Grassy ground, woods, under birch, rare Sept -Oct $5\frac{1}{8} \times 5\frac{1}{8} \times \frac{7}{8}$ in

975 C claricolor Fr (from the clear colour, clarus, clear) a b c P convexo-plane or depressed, often broken into sc., marg fringed with Co. St. white-scally G emarginate or adnate, sometimes almost free, crowded

Mixed woods, under birch, amongs, heather Aug -Nov $4\frac{1}{8} \times 4\frac{1}{8} \times \frac{3}{4}$ in

976 C turmalis Fr (from growing in troops, turma) a b c

P convexo-plane, yellow tan, marg fringed with Co St evanescent, white or faintly ochreous-woolly, zoned G variously attached, crowded, serrate

Densely caspitose Mixed woods, chiefly beech, larch Sept –Oct $3\frac{1}{4} \times 4\frac{1}{4} \times \frac{3}{4}$ in

- 977 C crassus Fr (from the thick stem, crassus, thick) a b
 - P expanded, plane or slightly depressed, subfibrillose, dull yellow or tan-brown St fibrillose, mealy above, whitish, with an imperfect Z G rounded, crowded Moist woods Aug -Oct 6 × 48 × 18 in

- 978 C balteatus Fr (from the band or zone round the stem from the veil, baltcatus, belted) a b
 - P convexo-expanded, gibbous, innato-floccose, umber, marg lilac St tomentose, palest lilac G rounded or variously attached, crowded

Chiefly pine woods, under birch, dry places Sept -Oct 41 x 21 x 7 in

- 979 C sebaceus Fr (from its colour and clamminess, tallow-like, sebum, tallow) a
 - P campanulato-convex, then repand, smooth, marg fringed with Co St subfibrillose, piler than P with an imperfect Z G emarginate, veined, not crowded

Taste mild Woods, mixed, pine Sept -Nov 43 × 52 × 2 in

- 980 C lustratus Fr (from the absence of colour, histratus, purified, whitish) a
 - convexo-expanded, smooth, marg fringed with Co St zoned G crowded

Sunny places, amongst heath, grass Autumn 21 × 13 × 1 in

- 981 C varius Fr (from its changeable characters) a b c
 - P convexo-expanded, obtuse, yellow-tawny or umber, marg fringed with Co St adpressedly flocculose, whitish, zoned G emarginate, subcrowded
 - aste somewhat nauseous Woods, fir, uncommon Sept-Nov 4½ × 3½ × ½ in Must not be confounded with 1015 Taste somewhat nauseous
- 982 C cyanopus Fr (from the dark to pale purple stem, Gr kuanos, dark blue, pous, a foot) a b c
 - P convexo-plane, obtuse, date-brown-livid, then tan St naked, colour as P G adnate or emarginate, edge unequal Flesh sometimes changing to violet

Woods, under oak, frequent Aug -Nov 4 × 34 × 1 in

- 983 C varueolor Fr (from its variable colour) a b
 - P convexo-expanded, reddish-bay, marg violet, fringed with Co St solid, grey-bluish and whitish, transversely 3-5 Loned with Co G emarginato-decurrent, crowded
 - Woods, pine Sept -Nov 5½ × 6½ × 1½ in Var nemorensis Fr smaller P rivulose, yellow bay St hollow Woods, beech
- 984 C largus Fr (from its large size) a b
 - P convexo-plane, obtuse, tawny brick-red, sometimes deep bright purple when young, marg pale purple, fringed with Co St fibrillose, pale purple above, tan below, sometimes becoming red when bruised G emarginate or adnate, crowded

Somewhat cæspitose Woods, pine Sept -Oct 24 x 43 x f in

- 985 C Riederi Fr (after M Rieder of St Petersburg) a b
 - P campanulato-expanded, obtuse, ochreous, marg fringed with Co St Iilac-silky and tan-fibrillose G adnate or rounded, eroded, somewhat thick

Woods, pine Sept -Oct 21 × 45 × 3 in

986 C saginus Fr (from its great size, sagina, corpulence) a c P convexo-expanded, obtuse, repand, yellow, mid darker, maig paler Co fugacious St somewhat bulbous, fibrillose, light yellowish G decurrent, eroded

Gregarious, somewhat cuspitose Woods, larch Oct 5\frac{5}{8} \times 4 \times 1\frac{3}{8} in

- 987 C russus Fr (russus, red) a b
 - P campanulato-expanded, obtuse, marg fibrillose St not bulbous, whitish G adnate or subadnate, crowded, veined
 - Taste nauseous bitter Woods, moist places, uncommon Sept-Oct $4\frac{1}{5} \times 3 \times \frac{1}{2}$ in
- 988 C infractus Fr (from the broken and bent margin of the pileus, infractus, broken, incurved) a c
 - P expanded, slightly depressed, virgate, olive then yellowish, marg at first broken, then revolute and wavy St adpressedly fibrillose, dull olive becoming pale Co fugacious G adnate, broad, crowded
 - Tuste nauseous bitter Woods, beech Oct $3 \times 1\frac{1}{2} \times \frac{7}{6}$ in Becoming olive blackish in drying
- 989 C anfractus Fr (from the margin of the pileus, anfractus, recurved) a b
 - P convexo-expanded, then repand, dark olivaceous, marg thinner than 988, broken, usually sinuous and very irregular St fibrillose, violaceous above, dull olivaceous below Co superior G emarginate, distant Flish reddish when cut Woods, rare Sept-Oct 33 × 3 × 3 m
- 990 C Berkeleyi Cooke (after the Rev M J Berkeley) a
 - P convexo-expanded, obtuse or subumbonate, silky, bright ochrous-brown, white-patched with Co, marg plicato-sulcate tan-brown, lilac or violaceous, appendiculate with Co St fibrillose, whitish G emarginate, arcuate
 - Woods Autumn 7½ × 4¾ × 1½ in In infancy the wlole plant is covered with a whitish veil

t Scauræ

- 991 C multiformis Fr (from its varied shapes) a b c
 - P convexo-plane, slightly depressed, light yellow, clay or tawny, marg fringed with Co St white or pale yellow G emarginate or free, serrulate, crowded, thin
 - Taste and odour usually mild, odour sometimes of Stephanotis Woods, beech, uncommon Aug-Nov $3\frac{1}{8} \times 2\frac{3}{8} \times \frac{3}{8}$ Nar flavescens Cooke P tawny yellow G yellow Flesh tinged yellow

- 992. C. napus Fr (from the turnip-shaped base of the stem, napus, a turnip) α
 - P convexo-plane, obtuse, fuliginous or date-brown-tawn, marg fringed with Co St white, becoming yellowish below G emarginate or broadly adnate, subdistant, crisped

Woods, pine Oct 28 x 13 x 8 in

- 998 C allutus Fr (from its viscidity, allutus, bathed) a l
 - P convexo-plane, reddish-russet or orange-yellow St viscid, white above, reddish-striate below G adnate, subcrowded, thin, crenulate

Woods, pine Oct 12 x 13 x 3 in

- 994 C talus Fr (from the base of the stem, like swollen ankles, talus, an ankle bone) a b
 - C convexo-plane, dull ochre, marg faintly olivaceous St smooth, tan or dull ochreous tan G adnato emarginate Flesh pallid whitish

Woods Sept-Nov $3\frac{3}{8} \times 2\frac{7}{8} \times \frac{1}{2}$ in

- 995 C glaucopus Fr (from the pale blue stem Gr zlaukes, pale blue, pous, a foot) a b
 - P convexo-expanded, unequal, dull ochre, commonly floccososcally with a raised dark zone at marg St fibrilloso-woolly and steel-blue above, base ochreous G rounded cmarginate, crowded
 - In troops Woods, pine, beech, frequent Aug –Oct $3\frac{1}{4} \times 2\frac{1}{2} \times \frac{1}{4}$ in Becomes bright violet when cut or bruised
- 996 C calochrous Fr (from its beautiful colours (il kalos, beautiful, chros, colour) a b c
 - P convexo-expanded, guttate, tawny, marg yellow St fibrilose, tan, yellow at base G emarginate, crowded serrate
 - Taste acrid , odour fetid Woods, oak, beech, pastures , frequent Sept-Nov $2\frac{2}{8} \times 2\frac{1}{4} \times \frac{3}{4}$ in
- 997 C cærulescens Fr (from the azure-clouded pileus acruleus, azure) a b c
 - P convexo-plane, dull yellow, clouded pale purple, sometimes dull or bright purple or violet St at first fibrillose, faint or deep purple, bright or dull G adnate, thin, crowded Flesh pale violaceous
 - Taste insipid, odour almost obsolete Mixed woods, mossy places, frequent Aug -Nov 2\(^2\frac{1}{8}\times \frac{1}{8}\) in Not changing colour when broken
- 998. C purpuraseens Fr (from the gills becoming purple when bruised) a b c
 - P convexo-plane, then repand, brown clouded with purple at the sometimes zoned marg St solid, fibrillose, clouded pale brown and blue G emarginate, crowded
 - Single or cæspitose Mixed woods, beech, pine, common Sept-Nov 42 × 3 × 13 in The purple hues have sometimes a tendency to crimson

- Sometimes the whole plant is purple and not unlike 139 $\$ \text{ as subpur purascens } Fr, \text{ thinner than type, slightly virgate} P \text{ tawny smoke colour } S' \text{ hollow, pale bluish or whitsh}
- 999 C dibaphus Fr (from the two colours, Gr dibaphos, twice dipped or dyed) a b c
 - P convexo-plane, or slightly depressed, yellow or sienna with purple or lilac marg St deep yellow to straw G sinuato-adnate, somewhat crowded, straw to purple-ferruginous Flesh yellow
 - Taste and odour none Woods, beech, oak Sept-Oct $4 \times 3\$ \times \$$ in Wholly deep claret when dry Var xanthophyllus Cooke, the young state P for a long time yellow
- 1000 C turbinatus Fr (from the shape of the base of the stem, turbo, a spinning-top) a b
 - P convexo-depressed, dull yellowish, marg somewhat olivebrownish St stuffed to hollow, faintly dull yellowish G attenuato-adnate or decurrent, thin, crowded

Woods, beech, uncommon Sept 57 × 27 × 8 in

- 1001 C corrosus Fr (corrosus, gnawed to pieces, in reference to the late condition of the pileus) a
 - P convexo-depressed, subfloccose, ferruginous to pale tan St almost hollow, tan, white above G emarginate, narrow Woods, pine Sept 3 × 1½ × ½ in
- 1002 C fulgens Fr (from its shining colour, fulgeo, to shine) a b c P convexo-plane, silky-fibrillose, brilliant yellow St fibrilloso-woolly, colour as P G emarginate Flesh yellow Woods, pine, rare Sept 3 € × ₹ x n
- 1003 C fulmineus Fr (from the shining pileus, fulmen, lightning) a P convexo-expanded, agglutinato-scaly, hard, bright yellow to tawny St yellow G rounded

Shady woods, oak Oct 21 × 17 × 1 in

- 1004 C orichalceus Fr (from the colour, like yellow copper ore, orichalchum) a b
 - P convexo-depressed, sienna-crimson, mid spotted scaly marg dull yellow or faintly olive St fibrillose, sulphur to dull yellow G rounded-adnate

Under trees, woods, pine Sept -Oct 3 x 3 x x 1 in

- 1005 C testaceus Cooke (from the colour, testaceus, brick-red) a b
 P convex, flat, umbonate, vinous brick-red St fibroso-striate
 below, white above, rufous below G adnato-emarginate
 Woods, amongst leaves Oct-Nov 3⅓ x ¾ x ⅓ in
- 1006 C prasinus Fr (from the colour, Gr prason, a leek) a c
 - P convexo plane, obtuse, spotted, verdigris or tawny-fuliginous St greenish-pallid G emarginate, subdistant, somewhat crisped
 - Commonly sporadic Edible Taste mild Woods, beech Sept-Oct $3\frac{1}{8} \times 3\frac{3}{4} \times \frac{9}{8}$ in

- 1007 C atrovirens Kalch (from the pileus, often dark green, atrovirens) a b
 - P convc., slightly depressed, green, sometimes olive-umber or bluish-green St pale-green, ferruginous below G adnate Flesh tinged with green Myc sulphur or tawny

Taste bitter , odour none Woods, pine Oct –Nov $3\frac{3}{4} \times 2\frac{3}{4} \times \frac{3}{4}$ in

- 1008 C seaurus Fr (from the stem, as if with swollen ankles, scaurus) a b
 - P convex, plane, depressed, spotted, tawny-fuliginous to vinous, mid darker St fibrilloso-striate, bluish-grey or pale olive, becoming white G adnate or adnexo-rounded, crowded

Woods, rare Sept-Nov 31 × 3 × 8 in

- 1009 C herpetieus Fr (from the lengthening stem, Gr herpetikos, creeping) a b
 - P convex, obtuse, spotted, olive or yellow-olive, then tan stuffed, fibrillose, greyish above, yellowish or tan below adnate

Woods Sept $2\frac{1}{4} \times 2\frac{1}{8} \times \frac{3}{8}$ in

220

c Elasticae

- 1010 C cumatilis Fr (from the colour of the pilcus, cumutilis, sea-coloured, blue) a b c
 - P convex, slate-grey or purple-grey, marg fringed with Co St subbulbous, sometimes slightly rooting, white G attenuato-adnexed or adnate, serrate

Sometimes subcæspitose Woods Sept -Oct $3_8 \times 4\frac{1}{4} \times \frac{3}{4}$ in

- 1011 C serarius Fr (from the whey-like moisture of the pileus, like scrum) a
 - P convexo-plane, gibbous, ochreous, buff-whitish or white St fibrillose, subrooting, ochre-whitish or white G broadly adnate, crowded, at first pale olive, then sienna-olive with ochre Flish pale yellowish

Woods Autumn 31 × 31 × 11 in

- 1012 C emollitus Fr (from its soft substance, emollitus, soft) a b
 - P convex, obtuse, subrepand, fibrilloso-virgate, tawny ochreousyellow St fibrillose, white, then tinged yellow G emarginate, broad, subdistant
 - Often cæspitose Taste acrid Woods, beech, grassy places Sept –Oct $2\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$ in
- 1018 C erystallinus Fr (from the shining white pileus, Gr krustallinos, crystalline) a b
 - P expanded, obtuse, at first watery-pallid, or ivory St fibrillose, whitish-straw, zoned G emarginate

Taste acrid Woods, beech, fir, oak Oct 13 x 17 x 1 in

- 1014 C decoloratus F1 (from the change of colour in the bibulous pileus, drying lighter in patches) a b c
 - P campanulato-expanded, obtuse, clay-colour or tan, corrugate when old St whitish G emarginate, adnate, or decurrent
 - Taste acrid Woods, birch, pine, beech Aug-Oct Protein, varying large and small Large 31 x 31 x 2 in Small 2 - 18 x 14 x 1 in
- 1015 C decolorans Fr (from the gills, soon changing colour from purple to cinnamon, but unchanging when bruised) a b
 - P convexo-flat, yellow, marg fringed with Co St shiningwhite, zoned G emarginate or sinuato-adnexed, crowded, thin Flish white
 - Woods, fir Sept-Oct 23 × 31 × 3 in Must not be confounded
- 1016 C porphyropus Fr (from the purple stem, Gr porphureos, purple, pous, a foot) a b c
 - P conveyo-plane, innately streaked, livid brownish-clay purple, becoming whitish, but again lilac or purple if bruised G adnato-emarginate or rounded, at length cinnamon, but again purple if bruised Flish deep purple
 - Taste insipid, odour in drying sometimes of mice Woods Sept -Oct $2\frac{1}{8} \times 2\frac{1}{8} \times \frac{1}{4}$ in
- 1017 C croceocæruleus Fr (from the saffron-gills and blue-purple pileus, croceus, saffron, cæruleus, azure) a b

 P gibbous, plane or depressed St naked, whitish or pale
 - purple, zoned G emarginate Ihsh pallid
 - Odour disa reeable Woods, beech Oct 13 × 15 × 3 in
- 1018 C coruscans Fr (from the glittering pileus, coruscans, glittering) a
 - P obtuse, flat, ochreous, often spotted tawny St solid fibrillosostriate, white G plano-decurrent
 - Taste and odour obsolete Copses, beech $5\frac{1}{2} \times 4\frac{1}{2} \times \frac{1}{2}$ in
- 1019 C papulosus Fr (from the granular patches on the pileus,
 - papulosus, full of pimples) a

 P convexo-plane, honev-tan, mid glabrous, ferruginous-patchy when dry St solid, fibrillose, white G adnato-decurrent Woods, pine Oct -\ov $2\frac{2}{8} \times 3\frac{8}{8} \times \frac{1}{2}$ in
- 1020 C vespertinus Fr (from the dull colours, as of evening,
 - P convexo-plane, p le umber, marg fringed with Co St solid, fibrillose, white G emarginate, broad, crowded, umber, shaded olive
 - Woods, oak Oct 28 x 4 x 1 m
- 1021 C olivascens Fr (from the olive-greenish pileus) a c
 - P convexo-plane, giabrous, marg striate, fringed with Co St tan-white G emarginate or adfixed, olive-brown Flesh vellowish near surface of P and St
 - Taste acrid Damp places amongst pines Sept $2\frac{1}{4} \times 3\frac{1}{4} \times \frac{5}{15}$ in

SUBGENUS 2 MYXACIUM

(From the glutinous pileus and stem, Gr muxa, mucus)

Veul universal, glutinous Puleus fleshy, glutinous, somewhat thin Stem scarcely bulbous, viscid, more or less zoned Gulls adnate or decurrent (Fig. 54)

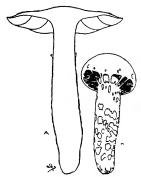


Fig 54 —Cortinarius (My vacium) collinitus Fr A, section of inature example B young state One third natural size

a Collinitæ Stem floccoso-peronate, the flocer at first covered with gluten
 1022—1027

b Delibutæ Veul entirely viscid Stem not floccoso-peronate, viscid, with a varmished appearance when dry 1028—1034
Gill's whitish, then clav-colour 1028
Gill's a first violaceous, dark blue or reddish 1029—1031
Gill's at first ochracious or cunnamon 1032—1034

a Collinita

1022 C arvinaceus Fr (from the viscid greas) pileus and stem, arvina, grease) a b

P flat, slightly depressed, repand, orange-tawny, marg striate St solid, equal, silky-viscid, white Co fugitive, forming an imperfect Z G adnato-decurrent, subdistant, crenulate, straw or ochreous-tan to bright ochreous

Woods, beech Oct 31 × 51 × 1 in

1023 C collinitus Fr (from the pileus and stem, besmeared with gluten, collino, to besmear) a b c

P convexo-flat, obtuse, orange-tawny or umber, white-patched with Co, marg not striate St solid, equal or attenuate

upwards, floccose-glutinous and concentrico-scaly with the fugitive viscid-floccose Co , tan-ochreous $\,G\,$ adnate, subcrowded, whitish-bluish-grey to cinnamon

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Woods, amongst heather, common July-Nov $4\frac{5}{8} \times 5\frac{1}{2} \times 1$ in Var mucosus Fr, firmer, stem even, silky Woods, pine

1024 C mucificus Fr (from the abundant flowing gluten, muci-

fluus, flowing with mucus) a b

P campanulato-expanded, obtuse, reflexed, livid-clay or shaded olvaceous, white-patched with Co, marg striate St attenuate downwards, white, with steel-blue gluten forming zones G adnate, clay-colour then watery-cinnamon

On the ground $\text{Aug} - \text{Oct} \quad 3\frac{1}{2} \times 5 \times \text{g in}$

1025 C elatior Fr (from its tall growth, elatus, tall) a b c

P conveyo-flat, subreflexed, plicato-wrinkled, light yellow, dull ochreous, deep orange, whitish, brown, grey or blackish, whitish, violaceous or olivaceous at marg St attenuate downwards, longitudinally fibrous, viscid-scaly, whitish, greyish or pale-purplish with a fugitive viscid Co G adnate, veined, brown-cinnamon

Taste mild Mixed woods, pine, beech, common Aug -Nov 41×63×11 in

1026 C grallipes Fr (from the long, stilt-like stem, gralla, stilts, pcs, a foot) a b

P firt, umbonate, repand, hygrophanous, ferruginous to ochreoustan 5/ stuffed to hollow, equal, fibroso-striate, yellowishtawny to ochreous, with a fugacious, arachnoid Cowith a decurrent tooth, crowded, clay to cinnamon

Cuspitose Mixed woods, grassy places near trees, poplar, oak Oct $3\frac{1}{5} \times 4\frac{3}{5} \times \frac{1}{15}$ in

1027 C livido-ochraceus Beik (from the livid ochre colour of the pileus) a b

P convexo-flat, white, with faint ochre, pale dull lavender, or faint brown mid or wholly brownish, lavender-purplish when young St violet, steel-blue or white above, brownish below, with a fugitive Co which forms an imperfect ochre Z G rounded-adnexed, subdistant, ochre to cinnamon, edge pale

Odour none Woods, uncommon Sept -Oct 21 x 21 x 1 in

h Delibuter

- 1028 C nitidus Fr (from its shining, beautiful appearance, nitidus, bright) a
 - P convex, plane, obtuse then depressed, honey-colour, sometimes white St clavate, pallid-white or yellowish-tan G decurrent, crowded, serrate

Subcæspitose Woods, beech Autumn $3\frac{1}{2} \times 3 \times \frac{1}{2}$ in

- 1029 C salor Fr (from its greyish colour, like the sea, salum) a b P convex, obtuse or broadly umbonate, mid grey, marg violaceous or steel-grey St attenuate upwards, white, when young covered with bluish gluten Co forming an imperfect Z G emarginate or adnate, distant, grey or cinnamon Woods Oct 3 x 3t x # 10
- 1030 C delibutus Fr (from the besmeared gluten, delibuo, to besmear) $a\ b$
 - P convex-flat or subdepressed, light yellow St stuffed or hollow, attenuate upwards white, sometimes pale steel-blue above Co forming an imperfect Z G adnate, slightly emarginate or subdecurrent, subdistant, serrulate
 - Taste watery to slightly pungent On the ground, damp grassy places Sept –Oct $2\frac{1}{4} \times 3\frac{3}{4} \times 1\frac{5}{5}$ in
- **1031 C Illibatus** F1 (from the gills, the margin entire, not scrrulate, as in the last, *illibatus*, entire) a
 - P convexo-plane, obtuse or subumbonate, yellow, mid darker St stuffed or hollow, slightly attenuate above, white, often reddotted upwards G adnato-decurrent, crowded
 - Woods, pine Autumn $1\frac{7}{8}\times2\frac{7}{8}\times\frac{3}{16}$ in Smaller and more slender than 1030, with no trace of violet colour
- 1032 C stillatitius Fr (from the dripping gluten, stillo, to-drip) a b P convexo-plane, subumbonate, hygrophanous, mid tan-grey, marg steel-grey and appendiculate with gluten St hollow, attenuate upwards, steel-grey with gluten Co forming an imperfect Z G emarginate, subdistant
 - Odour none Mossy places, pastures, amongst dead leaves , uncommon Oct $2\frac{1}{2} \times 3\frac{1}{4} \times \frac{8}{9}$ in
- 1033 C vibratilis Fr (from a fancied tremulous habit, vibratilis, quivering) a b
 - P plano-gibbous, hygrophanous, shining golden-yellow St stuffed, attenuate upwards, whitish Co forming a glutinous fugitive Z G emarginato-decurrent, thin, crowded
 - Taste and odour disagreeable Woods Sept 14 × 14 × 1 in
- 1034 C pluvius (from its viscidity in rainy weather, flue, to rain) a P convex-ogibbous, hygrophanous, pale yellow-tawn, marg striate St stuffed to hollow, nearly equal, naked, obsolutely viscid, white G adnexed, crowded
 - Taste watery, then acrid pungent Woods, pine Sept -Nov 11×2×1 in

SUBGENUS 3 INOLOMA

(From the fibrillose or fringed veil, Gr 15, 1105, a fibre, loma, a fringe)

Veil single, fibrillose Pilius equally fleshy, dry, subcompact, at hist silky with innate scales or fibrils, becoming smooth, flesh

continuous, not hygrophanous Stem fleshy, somewhat bulbous (Fig. 55)

Handsome and easily distinguished

Species 1085—1057

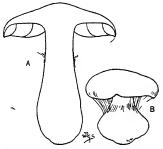


Fig 55 —Cortinarius (Inoloma) violaceus Fr One half natural size A section of mature example B young state

Gills at first white or pallid	10351038
Gills, Veil and Stem violaceous	10391045
Gills or Veil cinnamon, red or ochreous	1046-1052
Gills or Val dark, fuscous, olivaceous	1053 —1057

1035 C argutus Fr (from the graceful habit, argutus, graceful) a b P expanded, gibbous then subdepressed, ochreous St solid, ventricose, fibroso-squamose, yellowish-white G adnate, rounded, subdistant, white clay-colour

Woods, amongst leaves, oak Oct 4½ × 3½ × ½ in

1036 C argentatus Fr (from the silvery white pileus and stem , argentum, silver) $a\ b\ c$

P convexo-plane, broadly gibbous, marg pale lilac then dun St solid, slightly attenuate upwards, yellowish at base G emarginate, crowded, becoming watery-cinnamon or sienna

Taste insipid, odour weak to strong, sweet, not fetid Woods Sept -Oct 5 × 3\frac{3}{2} \times \frac{3}{2} in Var pinetorum Cooke, smaller and more graceful, odour faint Woods, pine

1037 C opimus Fr (from its obese appearance, opimus, fruitful) a P convexo-plane, hard, dry, wavy-deformed, rimoso-rivulose, white, covered with short ochreous down St solid, hard, subturbinate, white-fibrillose with Co, base rooting G emarginate, subcrowded, whitish then tan

Solitary Woods Autumn 41 × 11 × 11 in

- 1038 C turgidus Fr (from the stem, frequently swollen or bulbous, turgidus, swollen) a
 - P convexo-obtuse, flat, clay-white, marg white-silky St solid, bulbous, rimoso-striate, surface often undulate, colour as P, with an imperfect Z G emarginate, nurrow, crowded, whitish to tan

Odour strong Woods, beech Autumn 3 x 21/2 x 1/2 in

- 1039 C violaceus Fr (from the violet colour) a b c
 - P convex, obtuse, flat, villous-scaly, dark purple, smeared copper-brown St solid, bulbous, zoned G admite, district, dark violaceous, clouded cinnamon Flish dark blue or dark purple
 - Edible Taste like that of 792 Woods and open ground Aug -Nov 4 × 4 × 5 in Often confounded with 138 and 139
- 1040 C eyanites Fr (from the dark blue colour (11 luanites, dark blue) a b
 - P convex, flat, not villous-scaly, at first dark blue, then pale turquoise marg fringed with Co St solid, bulbous, colour as P, zoned G rounded, crowded, turquoise to grev-bluish Flish colour as P, becoming reddish, with a red juice.
 - Woods, mixed Oct $5 \times 6 \times 4$ in Var major Fr P and <math>St compact, G subdistant, cinereous, dark blue, flesh turning red more slowly than type When brused the blue colour changes to salmon
- 1041 C muricinus Fr (from the purple colour, as of the mollusc Murcx) a
 - P convex, obtuse, becoming smooth, v oluceous to reddish-liver marg whitish, fibrillose St bulbous, villous, toned not juicy G emarginate, subcrowded, colour as St

Odour strong Woods, larch fir Oct $3\frac{3}{2} \times 2\frac{1}{2} \times \frac{1}{8}$ in

- 1042 C alboviolaceus Fr (from the violaceous-white pileus, albus, white, violaceus, violet) a b
 - P convexo-expanded, bloadly umbonate or gibbous, diy St solid, clavato-bulbous, white villous, zoned G adnate, subdistant, cincreous-violaceous to cincreous-cinnamon Flish palest azure-blue
 - Taste insipid, odour none Woods, beech, shady places Sept-Oct $3\frac{1}{4} \times 4 \times \frac{1}{2}$ in
- 1043 C malachius Fi (from the pale purple colour, as of the mallow) a
 - P convex, obtuse, white fibrillose becoming smooth, lilac, brownish or reddish when dry St bulbous, blursh-lilac, then whitish, zoned G emarginate, crowded, purple to watery ferruginous Flesh whitish
 - Odour none Woods, fir Sept $2\frac{7}{8} \times 2\frac{1}{2} \times \frac{7}{8}$ in Must not be confounded with 1133

- 1044 C camphoratus Fr (from its powerful odour, camphoratus, strong scented) a c
 - P convex, obtuse then flat, lilac, whitish, yellowish or tan-livid, mang fringed with Co St clavato-bulbous, pale violet or lilac, zoned G emarginate or adnato-decurrent, grey-blue to purplish Flesh pale bluish
 - Odour strong, fetid, penetrating, like fenugreek or curry powder Woods, fir Autumn $4 \times 4\frac{1}{2} \times \frac{5}{9}$ in
- 1045 C hireinus Fr (from its strong odour, hireus, a he-goat) a
 - P convex, obtuse, violet, mid becoming ferruginous, marg fringed with Co St bulbous, becoming pallid, yellowish at base, zoned G emarginate, subdistant, azure blue or violet to cinnamon Flash dings, becoming yellowish

Fetid Woods, fir Autumn 23 x 23 x 3 in

- 1046 C traganus Fr (from its strong odour, tragus, a he-goat)
 - P convex, obtuse, flat, hlac-purplish, becoming yellowish St bulbous, *spongy solid, violaceous to whitish, zoned, subannulate G emirginate, broad, distant, thick, saffron-othrous to cinnamon Flish yellowish
 - Woods, pune, amongst ling $\,$ 1 set strong, pleasant to unpleasant, odour fetid $\,$ Aug –Sept $\,$ 4½ \times 3½ \times ½ in $\,$ Var $\,$ finitimus 1 r , odour pleasant, peculiar, like fermenting gum
- 1047 C suillus Fr (from its odour of the pig, *suillus*, relating to swine) a
 - P convex, obtuse, pallid brick-red or ochreous-cinnamon, marg silky or floccoso-squamulose St clavate or equal, spongy, pallid, apex shaded light violet, darker when bruised, zoned G adnate, subdistant, fragile, connected by veins, cinnamon

Woods, fir Autumn 23 × 23 × 3 in

- 1048 C tophaceus Fr (from the colour, tophus, tufa) a b
 - P hemispherico-convex, very obtuse, glittering goldentawny, with small stenna sq St solid, subbulbous villososquamulose, tawny, zoned G emarginate, distant, tawny, cinnamon
 - Subcuspitose or solitary Odour sometimes strong Woods, beech Aug $2\frac{2}{6} \times 4 \times \frac{1}{2}$ in Var redimetus Fr St not bulbous or villoso scaly
- 1049 C callisteus Fr (Gr kallistos, most beautiful) a b c
 - P convexo expanded, obtuse, yellow-tawny to yellow-ferruginous S clavato-bulbous, solid, fibrillose, yellow, rhubarb-colour at base, imperfectly zoned G adnate, subdistant, yellow-tawny
 - Odour pungent or none Woods, oak, pine, rare July-Oct $2\frac{7}{5} \times 4\frac{1}{2} \times \frac{1}{2}$ in Resembles 580 in appearance

- 1050 C Bulliardii Fr (after Pierre Bulliard, French mycologist) a b c P convex, flat, crimson bay-brown or umber St solid, bulbous, fibrillose, blood-red below, pale above, irregularly zoned G adnato-subdecurrent, purplish to ferruginous, edge whitish Flesh pale purplish-rose, flecked pale blue
 - Odour strong Woods, mixed, beech Sept -Oct $2\frac{1}{2} \times 2 \times \frac{1}{2}$ in Some times approaching 1041, at other times 1064
- 1051 C vinosus Cooke (from its colour, runosus, like red wine) a P flat, subdepressed, shining St solid, marginato-bulbous, pale violet above, reddish below, zoned G adnato-subdecurrent, scarcely crowded, ferruginous-cinnamon

Under trees Oct 23 × 2 × ½ in

- 1052 C bolaris Fr (from its being marked with red, bolare, to mark) a b
 - P convévo-plane, obtuse, light yellow-red, covered with siennared sc St stuffed to hollow, apex white, elsewhere covered with sienna-red sc, often in irregular zones G decurrent, adnate or emarginate, crowded, pale to dark cinnamon
 - Solitary or subcaspitose Woods, beech , uncommon Aug-Nov $2\frac{1}{5} \times 2\frac{1}{2} \times \frac{1}{2}$ in When young P and St wholly sienna crimson Very dark when dry
- 1053 C pholideus Fr (from the scaly pileus and stem, (rr pholis, a scale) a b c
 - P convexo-plane, sometimes subumbonate, fawn-colour, covered with smaller umber and sepia sc St solid, pale white-purplish above, fawn below, clad with dark umber sc, often in zones, zoned cortinate above G adnesse-marginate, violaceous or pale slate to cinnamon

Woods Sept - Oct $3 \times 3\frac{1}{4} \times \frac{1}{2}$ in

- 1054 C sublanatus Fr (from the somewhat woolly pileus, lana, wool) a b c
 - P campanulate, expanded, umbonate, fawn, becoming ferruginous, covered with dark sq autre-purplish, colour as P below, coxered with dark sc, sometimes zoned G adnate, scarcely crowded, olivaceous-yellowish to cinnamon
 - Odour of radish Woods, larch, fir , rare Oct $3\frac{3}{4} \times 3\frac{1}{2} \times \frac{1}{2}$ in Intermediate between 1053 and 1084
- 1055 C phrygianus Fr (from the colour, like gold embroidery, phrigia, an embroiderer in gold) a
 - phrygio, an embroiderer in gold) a

 P convex, obtuse, honey-colour, covered with small black sc
 St subbulbous, paler than P, black-scaly below G roundedadnate, subcrowded, dull yellow
 - Odour of radish Shady moist places, under beeches Autumn $2\frac{n}{4} \times 2\frac{1}{4} \times \frac{1}{2}$ in Habit like that of 69

- 1056 C arenatus Fr (from the granulose pileus, as if sand-covered, arena, sand) a b c
 - P convexo-expanded, sometimes umbonate, pale yellowish-fuscous, mid umber, minutely squamulose St usually attenuate upwards, pallid above, fuscous and dark squamulose below G adnexo-emarginate, yellowish-cinnamion or salmon

Woods, uncommon Aug-Oct 27 × 27 × 8 in

1057 C penicillatus Fr (from the pencilled pileus) a b

P campanulato-convex, subumbonate, ferruginous-fuscous, densely floccoso scaly St stuffed, attenuate upwards, clothed with ferruginous-fuscous, concentric sc G rounded-adnate dark brown Flash ferruginous-fuscous

Woods, pine Sept -Oct $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{3}{15}$ in

SUBGENUS 4 DERMOCYBE

(From the thinly fleshy pileus, Gr derma, skin, kube, a head)

Veil single, fibrillose, forming a zone in 1064 Pileus thin, equally flishy, at first silky, with innate villous down becoming

smooth when old, dry, not viscid or hygrophanous* Shm hollow or stuffed, except 1058, often equal or attenuate, rigid, elastic or brittle Gulls changeable in colour Flish when moist watery or coloured (Fig. 56)

Polymorphous species defined with difficulty owing to the changeable colour of the gills Species 1058—1085

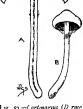
Gills at first whitish or pallid

1058-1063

Gills at first violaceous, becoming purple 1064—1070

Stem and fibrillose Cortina coloured
Gills bright cinnamon, red or
yellow 1071—1080

Olivaceous Pileus not torn into scales fuscous



l ig 55 — Cortinarius (D rmo cyl) cunnamomeus l'r A section of n ture example B young state One half natural size

Veil dull pallid or 1081—1085

1058 C ochroleueus Fr (from the yellowish-white pileus, Gr ochros, yellowish, lenkos, white) a b

P convex, gibbous St solid, ventricose or subbulbous, naked, fibrillose above with Co, coloui as P G adnexo- or adnatorounded, clay to ochreous or cinnamon

Taste none or bitterish, not unpleasant, odour none or sweetish Woods, mixed, rare Sept-Nov 23 × 13 × 3 in

- 1059 C decumbers Fr (from the usually decumber stem) a
 - P convex, gibbous or subumbonate, shining white or yellowish St stuffed to hollow, subclavate, smooth, white, with a fugacious Co G adnexed or adnato-rounded, white to clay and ochreous-cinnamon

Woods and grassy places Autumn 18 × 11 × 16 in

1060 C riculatus Fr (from the cortina or veil, rica, a veil) a P convexo-plane, gibbous or umbonate, atomate, buff, brown ochre or whitish, marg adpressedly silky-floccose from Co St hollow, subclavate, smooth, naked, buff-white, with a slight and imperfect pallid Z G adnato-rounded, subcrowded,

colour as P, tan to watery-ferruginous Flesh palest yellow

Woods, pine Autumn $2\frac{1}{2} \times 2\frac{1}{4} \times \frac{3}{8}$ in

1061 C tabularis Fr (from the flat pileus, tabula, a flat board) a c P convex, broadly gibbous, then plane, clay or fuscous-clax, becoming pale, marg fringed with Co St stuffed to hollow, equal or subclavate, white, zoned G emarginate, crowded, white to clay

Woods, common Sept -Oct 21 x 21 x 1 in

- 1062 C camurus Fr (from the frequently crooked stem, camurus, crooked) a b c
 - P campanulato-convex, obtuse or umbonate, pallid fuscoushoary becoming pale pallid-yellowish, mid darker marg fringed with Co St subhollow, twisted, equal, white G adnato-rounded or emarginate, grey-clay to subfuscous-waterycinnamon

Cespitose Taste not remarkable, odour somewhat rancid Woods, mixed, oak Sept-Oct $2\frac{1}{4} \times 3\frac{1}{4} \times \frac{5}{6}$ in Very fright

1068 C diabolieus Fr (from its doubtful position in Dermocrbi) a c P hemispherical, obtuse, flat, often unequal and cracked, fuscous, crusted with grey, then smooth and fuscous-yellowish St attenuate downwards, white, pale bluish grey above G adnatoemarginate, pale bluish-grey to whitish and clay

Odour none Woods, mixed, beech, uncommon Aug -Oct 11 × 2 × 3 in

- 1064 C caninus Fr (from its commonness, canis, a dog) a b c
 - P convexo-plane, tan-sienna to fuscous rufescent or tawny St stuffed to hollow, slightly attenuate upwards, whitish, violaceous above, zoned G emarginate, subdistant, bluish-grey or purplish to cinnamon

Edible Mixed woods, common Sept-Nov $38 \times 38 \times 8$ in

- 1065 C myrtillinus Fr (from its chestnut-brown colour, myrteus, chestnut-brown) a b
 - P convex, gibbous, plane, fuliginous, violet or dusky-brown

St clavato-bulbous, stuffed, whitish or pale violet Co obsolete G adnate, amethyst-azure-blue, or pale violet to dusky, not purple Flesh watery fuscous or whitish

Mixed woods, near trunks, beech Sept-Oct $2\frac{7}{8} \times 2\frac{1}{2} \times \frac{3}{8}$ in Greatly resembles 138 and 139, but these have no arachnoid veil, etc

- 1066 C azureus Fr (from the sky-blue pileus, azureus, skyblue) a b
 - P expanded, obtuse, atomate, lilac, then fuscous and pallid St stuffed, slightly attenuate upwards, smooth, striate, bright azure then whitish zoned G adnato-emarginate, bright bluish-violet Flesh white in P, blue in St

Solitary Woods, beech, amongst moss and leaves Autumn $1\frac{3}{4} \times 2\frac{1}{8} \times \frac{5}{16}$ in

- 1067 C alboeyaneus Fr (from the white pileus and blue gills, albus, white, cyaneus sea-blue) a b
 - P convex, plane, obtuse or umbonate, becoming yellowish, fringed with Co St subclavate, stuffed, whitish, toned G cmarginate, crowded, bluish-purple to subochreous

Sometimes crespitose Woods, beech Sept $2_8 \times 4_2^1 \times \frac{5}{18}$

- 1068 C anomalus Fr (from the colour of all its parts being very changeable, anomalus, irregular) a b c
 - P convex, expanded, gibbous or subumbonate, fuliginous or olive-shaded to rufescent, then vellowish with ochieous-sienna mid St stuffed to hollow, attenuate upwards, fibrillose or scaly, whitish, then palest vellow, zoned G adnato-emarginate, crowded, thin, violaceous to cinnamon

Gregarious Odour none Woods , common Aug –Oct $2\frac{4}{8}\times2\frac{1}{2}\times\frac{5}{15}$ in

- 1069 C spilomeus Fr (from the spotted pileus and stem, Gr spilos, a spot) α
 - P convex, expanded, gibbous, rufescent to clay-colour, spotted with reddish-tawny sc St hollow, almost equal, white-lilac above, pale yellowish below, with many zones of reddish tawny sc G adnato- or adnexo-emarginate, crowded, thin, bluishgrey or violaceous to watery cumamon

Subcrespitose Woods , uncommon Oct $2 \times 3\frac{3}{4} \times \frac{3}{8}$ in

- 1070 C lepidopus Cooke (from the fibrillose zones round the stem, Gr lepis, a scale, pous, a foot) a b
 - P convex, flat, slightly depressed, shining umber, mid becoming rufescent, marg steel-grey or pale violet St clavate, becoming hollow, violet or steel-grey above, whitish below, with concentric biscuit-coloured zones G adnato-rounded, thin, violet to cinnamon, or olive-shaded
 - Gregarious or fasciculate Woods, amongst heath Sept –Oct $2\frac{n}{8} \times 4 \times \frac{1}{4}$ in Perhaps a form of 1064

- 1071. C miltinus Fr (from the colour, like red lead, Gr miltos)
 - P expanded, gibbous or subumbonate, bay-brown-cinnamon to brick-red St hollow, attenuate upwards, cinnamon, reddish or crimson, salmon above and below, zoned red with Co G adnate, crowded, reddish-cinnamon to ferruginous Flesh rose in St, pale brown in P

Odour none Woods, mixed, mossy places Oct $1\frac{5}{8} \times 1\frac{1}{2} \times \frac{3}{16}$ in

- 1072 C einnabarinus Fr (from the vermilion colour, annabaris, vermilion) a b c
 - P convex, obtuse or subumbonate, vivid scarlet-red St equal, solid, colour as P G adnate or subdecurrent, blood-red, and then blood-sienna Flish orange-vermilion in P, vermilion in St
 - Taste mushroom like, odour of radish Woods, beech Sept -Oct $2 \times 2\tilde{j}_t \times \frac{1}{2}$ in Wholly dark brown when dry
- 1073 C sanguineus Fr (from the wholly blood-red colour, sanguis, blood) a b c
 - P convex, obtuse, plane St equal, stuffed to hollow G adnate
 - Odour of radish Woods, pine, oak Sept-Nov $2\frac{1}{6} \times 2\frac{1}{6} \times \frac{1}{4}$ in Giving out a blood red juice when pressed Sometimes very small
- 1074 C anthraeinus Fr (from the colour of the stem and gills, like burning coal, Gr anthrae) a b c
 - P convex, umbonate, dark chestnut St hollow, equal, deep blood-red, fuscous below G rounded adnate, crowded, red to fiery-red, blood-red when bruised

Woods, amongst moss Aug - Sept 11 × 12 × 1 in

- 1075 C cinnamomeus Fr (from the cinnamon colour) a b c
 - P expanded, obtuse or subumbonate, somewhat pale or bright cinnamon St stuffed to hollow, zoned G adnate, crowded, blood-red, red-cinnamon, saftron, golden, or light yellow Flesh yellowish
 - Tasteless Woods, mixed, fir, common Aug–Feb Variable in size Large $2\frac{2}{5} \times 3\frac{1}{5} \times \frac{C}{5}$ in Small $\frac{2}{5} \times 1\frac{1}{5} \times \frac{1}{5}$ in Var semisanguments Fr G blood red Var croceus Fr, smaller than type G yellowish or olive Intermediate forms occur between the type and its varieties
- 1076 C croceoconus Fr (from the saffron colour of the conical pileus, croccus, saffron, conus, a cone) a
 - P conical, campanulate, acutely umbonate, tawny cinnamon to yellowish-tawny St stuffed to hollow, yellow, zoned G adnexo-rounded, crowded, yellow to cinnamon Flesh vellow

Woods, pine, mossy places Autumn $I \times I_8^1 \times \frac{1}{16}$ in

- 1077. C uliginosus Berk (from its habitat, uligo, marshy ground)
 - P campanulato-conical, expanded, strongly and somewhat acutely umbonate, bright brown-red St stuffed to hollow, paler than P, zoned G adnate with a tooth, distant, yellow to olive and cinnamon

Woods, boggy places amongst Sphagnum Autumn $1\frac{1}{2} \times 3 \times \frac{3}{18}$ in

1078 C orellanus Fr (derivation obscure) a b c

P convex, obtusely umbonate, orange-tawn, St solid, subequal, striato fibrillose, tawny, orange-striate G adfixed or adnate, subdistant, orange to tawny-cinnamon Flesh as P, reddening

Taste mushroom like Woods, mixed Aug -Oct 21 × 11 × 1

1079 C malicorius Fr (from the colour, like the fruit of the pomegranate, malicorium, the rind of the pomegranate) a

P convexo-plane, obtuse, golden-tawny, or golden to fuscous or olive St hollow, golden G adnexo-rounded, crowded, golden-tawny Flesh y ellow to greenish-olive

Taste and odour pleasant Woods, pine Autumn $1\frac{\pi}{8} \times 2\frac{\pi}{8} \times \frac{1}{4}$ in

1080 C infucatus Fr (from the bright colour, fuce, to paint) a

P convex, obtuse, bright yellow to pale sulphur, marg fringed with Co St solid, clavate, fibrillose, pallid light yellow, zoned G adnite, crowded, tawny to cinnamon Flesh whitish, light yellow or pale olivaceous

Woods Sept -Oct 2½ × 4½ × ½ in

1081 C cotoneus Fr (from the colour, like the olive, (17 kotinos) a b P campanulate, expanded, obtuse, subrepand, velvety, olivaceous St solid, attenuate upwards, pallid olivaceous, with one or more fuscous zones G adnevo- or adnato-rounded, subcrowded, olivaceous to cinnamon

Odour of radish Woods, mixed, oak Autumn $3\frac{1}{2} \times 5\frac{1}{2} \times \frac{1}{2}$ in

1082 C subnotatus Fr (from its characters, hardly distinct, subnotatus, hardly marked) a b

P convex, flat, hoary-floccose, olive or shaded vellowish to dark fuscous St stuffed, conical to equal, naked above, yellow fibrillose below, zoned G adnate, slightly emarginate, subdistant, yellowish to olivaceous-cunnamon

Odour strong Under trees, beech, fir Nov 31 × 31 × 8 m

1083 C raphanoides Fr (from the strong odour of radish, Gr raphanos, radish, edos, resemblance) a b

P campanulate, expanded, umbonate, silky-fibrillose, fuscousolivaceous to tawny St stuffed, slightly attenuate upwards, paler than P, yellowish above G adnate, scarcely crowded, somewhat olivaceous or orange-sienna to cinnamon ferruginous, edge paler Flesh pale yellow or sulphur-white

Taste acrid bitter Woods, mixed, beech, fir Sept -Oct 2 x 21 x 15 in

1084 C valgus Fr (from the frequently twisted stem, valgus, bow-legged) a

P convex, gibbous, olivaceous to brick-red St somewhat hollow, clavato-bulbous, whitish, the track to brick-red and connamon or rounded-adnate, yellowish to brick-red and cinnamon

Odour none Woods, pine, amongst moss Oct $3 \times 3^{3}_{4} \times_{8}$ in

1085 C venetus Fr (from the sea-green pileus and stem, renetus, sea-coloured) a b

P hemispherico-obtuse, convex, umbonate, becoming greenishyellow \$1 stuffed or hollow above, equal or subclavate, colour as P G adnate, scarcely crowded, olivaceous to orange-ennamon Fh. h pallid yellowish

Gregarious Woods Aug -Oct $1\frac{1}{8} \times 1\frac{7}{8} \times \frac{5}{16}$ in

SUBGENUS 5 TELAMONIA

(From the whitish, lint-like fibres of the veil, Gr telamon, lint)

Veil universal, somewhat double Pileus moist, hygrophanous, at first smooth or sprinkled with the superficial, arachnoid, whitish

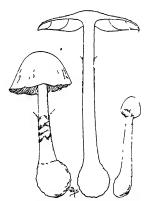


Fig 57—Cortinarius (Ielamonia) armillatus Fr Young examples and section of a miture specimen One third natural size

fibres of the veil, thin or moderately compact at the middle, thin towards margin, splitting Stem annulate from the inferior veil, or peronate with scales, somewhat cortinate at the apex Flish thin

throughout or becoming so abruptly near the margin, scissile (Fig 57)

The species are mostly large and handsome Species 1086 – 1128

a Platyphyllæ Gills broad

Stem and Cortina white or whitish 1086—1092

Stem violaceous Cortina usually white-violaceous Universal Veil white Gills violaceous 1093—1098

Stem and Vetl reddish or yellow, except 1104 Gills tawny or cinnamon, neither violaceous nor becoming brown

1099—1107

Stem becoming fuscous Veil fuscous or dull Gills dark coloured 1108—1114

b Leptophyllæ Pileus thin Stem externally more rigid, subcirculaginous, stuffed or hollow, often attenuate downwards Gills more or less crowded, thin, narrow

S'em whitish, pallid, not floccoso-scaly

Stem inclining to violet

1117—1119

Pilius and Stem tawny, ferruginous

Pilius fuscous

Stem floccoso-scaly, fuscous

1123—1128

a Platyphylla

- 1086 C macropus Fr (from the long stem, Gr makros, long, peus, a foot) a c
 - P convex, obtuse, flat, prick-red to ferruginous, hoary with small sc St solid, equal, fibrillose, dull whitish, then as P, zoned G adnexed or adnate, distant, pallid to watery cinnamon

Woods, moist places Oct $3\frac{1}{2} \times 6\frac{1}{2} \times \frac{1}{2}$ in

- 1087 C langer Fr (from the voolly pileus, lana, wool) a
 - P hemispherical, expanded, obtuse, bright tawny clad with white sc St solid, equal, white, annulate or bi-annulate G rounded-adnexed, tawny-saffron
 - Odour strong Woods, larch, pine, beech, mossy places Sept $3\frac{1}{2} \times 6 \times \frac{1}{8}$ in
- 1088 C bivelus Fr (from the double veil, bis, double, 7 dium, a veil)
 - P convex, obtuse, plane, tawny-ferruginous, mid spotted or darker St solid, clavato-bulbous, dull whitish, squarrose below G adnexo-rounded, bright tawny-cinnamon

Taste mild , odour strong Woods Sept -Oct $3\frac{3}{8} \times 3 \times \frac{1}{2}$ in

1089 C bulbosus Fr (from the bulbous stem) $a\ b$

P campunulato-expanded, gibbous, olivaceous, or date-brown to reddish fuscous St solid, paler than P, yellow below, fugaciously zoned white G adnate, subdistant, cinnamon, never violet

Odour of radish Woods, mossy places, rare Sept-Oct 31×31×11 in

- 1090 C urbleus Fr (from its habitat, near trees and human habitations, urbs, a city) a b
 - P hemispherical, convexo-plane, clay-whitish, marg crenatotorn St solid, equal, white zoned G emarginate, crowded, watery-ferruginous

Grassy places Sept -Oct 21 x 21 x 3 in

- 1091 C licinipes Fr (from the woolly stem, licinium, lint, pes, a foot) a b
 - P campanulate, flat, obtusely umbonate, pale yellow to pallid tan St stuffed to hollow, equal, whitish, fugitive floccose, villous below, annulate G adnate, subcrowded, watery cinnamon
 - Odour none Woods, fir, damp places Oct $2\frac{1}{4} \times 2 \times \frac{3}{17}$ in Var robustior Cooke is larger and stouter than type
- 1092 C microeyelus Fr (from the veil, forming a small circle, Gr mikres, small, kuklos, a circle) a b
 - P campanulato-expanded, reddish-fuscous, mid darker, paler when dry St stuffed, attenuate upwards, whitish, zoned white G adnate, distant, lilac to cinnamon

Under trees, pines Oct 13 x 2 x 13 in

- 1093 C torvus Fr (from its habit, growing in wild places as contrasted with 1090, torvus, savage) a b c
 - P convex, obtuse or subumbonate, brick-red, brown, coppery or pale brown, shaded purplish St solid, clavate or equal, pale violaceous above, whitish and floccoso-scally below A white G adnate, thick, distant, becoming purplish-umber and dark cinnamon Flesh faintly dull purplish, often much eaten by larvæ
 - Taste insipid, not unpleasant Odour disagreeable, like 648 Woods, mixed beech, frequent Aug -Oct 4½ × 5½ × ½ in Intermediate forms occur between this and 1094
- 1094 C impennis Fr (from its smoothness as contrasted with 1095 impennis, without feathers) a b
 - P hemispherico-convex, glabrous, brown to reddish, marg silky and pale violet when young St solid to hollow, equal or subclavate, fibrillose, pallid, with a white Z G adnate or emarginate, very broad, cinnamon, shaded flesh-violet, becoming watery ferruginous Substance soft and watery
 - laste none Woods, pine, amongst dead leaves Sept.-Oct $4\frac{3}{8} \times 5\frac{1}{2} \times \frac{5}{8}$ in Var Incorum Fir St sometimes tinged with violet above G emarginate, cinnamon slightly shaded violet Massee (Eur. Fun., Fl. 192) regards this as a species
- 1095 C plumiger Fr (from the scales on the pileus and stem, plumiger, bearing feathers) a
 - P convexo-plane, umbonate, fuscous, olive-shaded to brick-tan, white floccoso scaly St solid, clavate, floccoso-scaly below, whitish A white G adnate, scarcely crowded, becoming pale cinnamon

Woods, mixed Sept -Oct 21 x 21 x 15 in

- 1096 C seutulatus Fr (from the stem, chequered with the veil, scutula, lozenge-shaped) $a\ b$
 - P hemispherico expanded, squamuloso-rivulose or lacunosowrinkled, purple-umber or brick-fuliginous, marg white silky St solid, subclavate, deep violaceous to fuscous, annulate and 4- to 7-zoned with white V G adnate, becoming cinnamon Flesh violaceous

Odour strong of radish Woods, moist places Aug -Oct 23×43×3 in

- 1097 C evernius Fr (from the stem growing tall cternius, sprouting) a b c
 - P conico-campanulate, expanded, obtuse or subumbonate, purple-bay-brown to pale pink-brown or umber with purplish marg, hoary when old St stuffed, slightly attenuate upwards, squamulosc, violaceous or paler than P, obsoletely multi-zoned G adnate, distant, becoming cinnamon Flish yellowish-white in P, purplish or greyish in St

Woods, pine, mixed, damp places, frequent Sept -Dec $2\frac{1}{4} \times 5\frac{1}{2} \times \frac{1}{2}$ in

- 1098 C quadricolor Fr (from the four colours, yellow, violaceous, cinnamon, and white) a b
 - P campanulate, expanded, umbonate, vellow to tawny St stuffed to hollow, fibrillose, violaceous-whitish A fugitive, white G adnate, distant, sometimes violet, becoming cinnamon, edge white

Woods, beech Oct $1\frac{7}{8} \times 3 \times \frac{1}{4}$ in

- 1099 C armillatus Fr (from the rings or zones round the stem, armilla, a ring) a b c
 - P campanulate, flat, dry, innately fibrillose or squimulose, brick-red or sienna, often cinnabar-zoned or spotted at marg St solid, bulbous, fibrillose below 1- to 6-zoned vermilion rounded or sinuato-adnate, becoming dark ferruginous
 - Taste agreeable or insipid, odour of radish or of 1394, or of colchon potatoes Woods, mixed, under hazel, frequent Aug-()ct 4½

 The vermilion zones are permanent after drying
- 1100 C hæmatochelis Fr (from the blood-red zone o inucundus, Gr hama, blood, chelus, the chest) a b c
 - P convex, gibbous, flat, pallid fuscous-brick-col, subclavate, sepia St solid, clavate, zoned rufous G above Z crowded, pallid cinnamon
 - Woods, beech Aug –Oct $5 \times 4\frac{1}{2} \times \frac{1}{2}$ in Col permanent after drying acorn, glans) a
- 1100a C paragaudis Fr (from the fibrill seconing dull pale-border or trimming of a garment) a, subfibrillose with a
 - P somewhat fleshy, campanulato-exp Autumn 13 × 3 × 3 in somewhat fibrillose, brown, tawn hate with white Co, cingulate, times orange St hollow, twif

with reddish adpressed fibrillose sc G adnexed, venticose subdistant, opaque cinnamon

Damp places under pines Autumn $2\frac{1}{2} \times 6\frac{1}{4} \times \frac{3}{8}$ in Var prestigiosus l'r P submembranous, striate, sills, fibrous towards edge, dark bay, then lighter SI red squamulose G distant, tawny cunamon Lnder pines

- 1101 C eroceofulvus Fr (from the colour of the pileus, creceus saffron, fulvus, tawny) a
 - P campanulate, obtuse, flat, bright tawny-orange St hollow, equal, strate, yellow, rufous-tinged Z a bright red line G adnato-sinuate, thick, subdistant, becoming ferruginous Woods, fir Sept $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{2}$ in
- 1102 C limonius Fr (from the lemon-coloured pileus, limoneus, lemon-coloured) a
 - P convexo-plane, obtuse, tawny lemon-yellow, sometimes orange St solid, equal, orange-yellow, light yellow floccoso-scaly G adnate, distant, at first light yellow Fhish colour as P Odour none Woods, pine, rive 34 × 34 × 4 in

Oddat none woods, pine, rate 34 × 32 × 2 m

- 1103 C helvolus Fr (from the pileus, becoming pale yellow hult olus) a b
 - P convexo-plane, obtuse or subumbonate, at first dark tawny-cinnamon St solid, equal, fibrillose, paler than P with a median ferruginous A G emarginate, distant, thick, somewhat veined

Woods, mixed, wooded pastures Sept -Oct $2\frac{1}{2} \times 3\frac{1}{2} \times \frac{5}{1}$ in

- 1104 C hinnuleus Fr (from its fawn colour, hinnuleus) a b c
 - P campanulato-expanded, umbonate often piciced-dotted, tawns cinnamon, marg silky St stuffed, slightly attenuate downwards, dull tawny Z broad, fugitive, white G emarginato-adnexed or adnate, distant, thin, veined
- 10. Tasteless Woods, inixed, common lug-Dec $3\frac{1}{4} \times 4 \times g$ in Variable in size
 - P_1^{Γ} gentilis Fr (from its relationship to its neighbours, gentilis, and the same race) a b c
 - subc'npanulate, expanded, obtuse, orange, tawny-cinnamon or emarghish. St stuffed to hollow, equal, colour as P, with 3-5 watery or sulphur zones. G adnate, very distant, thick lowesh or pale brownish.

Var lucorus oods, chiefly pine lug - Oct $l_b \times 6 \times \frac{1}{4}$ in

cinnamon sligues. Fr (from a fancied resemblance to certain this as a species the ella, a Discomycetous fungus) a b c

1095 C plumiger Pituse or umbonate, hygrophanous, ferruginous plumiger, bearing striate St hollow, equal, flexuous, sub-P convexo-plane, unlky above Z broad, yellowish G adnate,

white floccoso scaly rant, violaccous umber to cinnamon and whitsh A white

pale cinnamon ng rotten leaves, uncommon Aug-Oct Woods, mixed Sept-Oct 2,

1107 C rubellus Cooke (rubellus, ruddy) a

P campanulate, expanded, umbonate, rufous-orange, mid darker St solid, equal or subclavate, paler than P, 3- to 6 'zoned ferruginous G adnato-sinuate, scarcely crowded, pale then bright ferruginous-red

Swampy places Autumn 24 x 31 x 1 in With the appearance of an abnormal 1099 or 1111

1108 C bovinus Fr (from its stout habitat, bovinus, like a bull) a b P convex, obtuse, pallid to watery-cinnamon and tawny St solid, spongy-bulbous, brownish-cinnamon, whitish above the brown Z G adfixed or adnate, subdistant, cinnamon. becoming dark

Woods, mixed, pinc Sept 3 x 21 x 1 in

1109 C nitrosus Cooke (from the nitrous odour) a b

P convexo-expanded, obtuse, flat, becoming scaly, fawn to mid brownish and darker St solid, subequal ochreous, paler than P, marked below with squamose zones G emarginate, subdistant, violet to watery-cinnamon Flish pale brown

Woods, mixed \utumn 2\frac{1}{2} \times 2 \times \frac{3}{2} \times 1n

1110 C brunneus Fr (from its brownish colour, brunneus, brown) a b P companulate, flat, subumbonate, umber to dull reddish-tan St stuffed, subequal, brownish, white-striate A dull brownish-G rounded-adnate, thick, distant, purplish to brownishw hite cinnamon

Woods, pine, moist places, amongst grass Sept -Oct 35 × 38 × 1 in

1111 C brunneofulvus Fr (from its colours, brunneus, brown, fulcus, tawny) a b

P convexo-flat, subumbonate, fibrilloso-virgate, tawny-cinnamon marg at first white fibillose St stuffed to solid, subequal, fibrilloso-striate, tawny, patched cinnamon, with a fugitive dullwhite Z G adnate, ventricose, subdistant, tawny-cinnamon

Woods, pine, oak, amongst moss Sept 13 x 21 x 15 in

1112 C injugundus Fr (from its unpleasant odour, injugundus, unpleasant) a b

P convex, plane, obtuse, fuscous-cinnamon St solid, subclavate, colour as P, then tawny-yellow, faintly lilac above Z G emarginate, lilac-tan, then clay

Odour musty Woods, fir Nov 5 x 43 x 3 in

1113 C glandicolor Fr (from its colour as of the acorn, glans) a

P campanulate, expanded, umbonate, becoming dull paleochreous, marg striate St hollow, subfibrillose with a fugacious white Z G adnexo-adnate

Woods, pine, Sphagnum bogs, mossy places Autumn $1\frac{3}{8} \times 3 \times \frac{3}{18}$ in Var curtus Fr St 1 m, flexuous, peronate with white Co, cingulate, um becoming blackish

1114. C punetatus Fr (from the minute dots or punctures on the pileus, punctatus, dotted) a

P campanulate, flat, subumbonate, tan or somewhat cinnamon. St fistulose, fibrilloso-striate, yellow-fuscous, with a fugacious brownish Z G adnato-rounded, very distant, brown-cinnamon Woods, beech, fir Autumn 13 × 28 × 1 in

b Leptophyllæ

- 1115 C triformis Fr (from its assuming three forms) a, the type form, Schæfferi
 - P flat, gibbous or subumbonate, fawn to yellowish and whitishgrey St stuffed, subbulbous, pallid or faintly pinkish-ochre A distant, white G emarginato-adnate, ventricose, wateryochreous to pale cinnamon
 - Woods, beech Oct $3\frac{9}{8} \times 3\frac{1}{2} \times \frac{9}{8}$ in I Schafferi, as above 2 Mellio pallins P hemispherical, honey colour, then pale tan G at first yellowish St coincally attenuate, pallid yellow Woods, pine 3 Fuscopallens P thin, fuscous, becoming pale G at first watery white Woods, pine
- 1116 C biformis Fr (from its resembling two subgenera, a Telamonta with the appearance of a Hidrocibe) a
 - P campanulate, expanded, umbonate, dark ferruginous-brown to pale bay St stuffed, attenuate downwards, fibrilloso-striate, paler than pileus A fugitive, white G adnato- or emarginatorounded, grevish to watery-cinnamon or whitish umber

Woods, mixed Oct 21 × 2h × 1 in With the habit of 1140

- 1117 C periscelis Fr (from the garter-like annulus, Gr periskelis, a garter) a c
 - P campanulate, convex, umbonate, lilac, greyish or brownish, St stuffed, colour as P, or pale steel grey, fibrillose, multi-zoned fuscous G adnato-ascending, pallid or salmon-tan to dark ferruginous

Bogs and under beeches Autumn $2 \times 3\frac{1}{2} \times \frac{3}{16}$ in

- 1118 C flexipes Fr (from the flexuous stem, flexus, bent, pes, a foot) a b
 - P campanulate, expanded, acutely umbonate, dark-brown-fuscous, shaded violaceous to pale yellow, hoary-fibrillose St stuffed, pallid violaceous or steel-grey, floccoso-scaly below the white Z. G adnate, slightly rounded, purple or umber-violaceous to cinnamon, edge whitish

Woods, larch, fir, frequent Sept -Oct 13 × 3 × 1 m

- 1119. C flabellus Fr (from a fancied resemblance to a small fan,
 - flabellus) a bP conical, expanded, umbonate, olivaceo-fuscous to yellowumber, then tan, at first white scaly then incised and tornfibrillose St stuffed, floccoso-scaly, pallid, apex violet.

- Z or A white or none G adnate, dark violaceous to cinnamon and olive
- In troops, gregarious Odour strong, somewhat of radish Woods, beech, moist places $\frac{3}{4} \times 2\frac{3}{4} \times \frac{1}{8}$ in
- 1120 C psammoeephalus Fr (from the furfuraceo-squamulose pileus, as if sand-covered, Gr psammos, sand, kephale, the head) a Fawny-cinnamon
 - P convex, plane, subumbonate, at length revolute St stuffed to hollow, slightly attenuate upwards, squamulose below A G sinuato-adnate, becoming umber-cinnamon
 - Odour none Woods, mixed, fir, charcoal heaps, frequent Sept-Oct $2\frac{1}{4} \times 1_8^2 \times \frac{3}{18}$ in
- 1121 C meisus Fr (from the cracked, incised pileus) a b
 - P convex, expanded, broadly umbonate, naked, then fibrilloso-scaly, brown of various shades St stuffed, fibrous, fibrillose, tan to ochreous and brown A white or obsolete G adnate, subdistant, salmon to deep stenna
 - In troops or subcespitose Odour slight Woods, pine, naked ground, dry places, dry turf bogs Sept $\mathbf{1}\frac{1}{2} \times \mathbf{1}\frac{g}{8} \times \frac{1}{8} \ln$
- 1122 C illopodius Fr (from the colour of the stem, as if dirty, Gr tlus, mud, pous, a foot) a b c
 - P expanded, umborate, opaque connamon to tran St stuffed, equal, fuscous, pale saffron-connamon within A median white G adnate, subdistant, thin, salmon to connamon
 - Write G admare, subdistant, thin, salmon to elimanon Taste somewhat of radish Woods, mixed, fir, beech, common July-Dec 14 × 24 × ½, in
- 1123 C hemitrichus Fr (from the partly hairy pilcus and stem, Gr hemi, half, thria, a hair) a b
 - P convex, expanded, umbonate, grey or dark fuscous to fuscoustan, erect white-fibrillose, especially round marg, um dark St hollow, equal, white flocculose below the median white A G adnate, very crowded, clay to cinnamon or sienna Flesh sienna
 - Woods, mixed, mossy places, boggy ground, amongst fallen leaves , uncommon April-Oct $1\frac{7}{8} \times 2\frac{3}{4} \times \frac{1}{4}$ in
- 1124 C stemmatus Fr (from the silky marginal band of the pileus, like a wreath, (or stemma) a
 - P convex, expanded, subumbonate, dark to pale brown St stuffed to hollow, equal or slightly attenuate downwards, ferruginous-brown within and without, with grey-white zones G adnate, crowded, opaque date-brown
 - Woods, moist places Autumn 11 × 38 × 18 17
- 1125 C rigidus Fr (rigidus, firm) a b
 - P conco-campanulate, umbonate, cumamon-bay to yellowishtan, marg pellucidly striate St stuffed to hollow, equal, colour as P variegated with tan-white and umber zones G adnate, ventricose, subcrowded, salmon to cunnamon
 - Odour strong Woods, damp places Nov 13 x 23 x 3 in

1126 C paleaceus Fr (from the chaffy white scales of the pileus, palea, chaff) a b c

P convex, expanded, acutely umbonate, fuscous to greyish, mid umber, marg paler or whitish Sf fistulose, floccoso-scaly, fuscous within and without A and 1-7 zones whitish G adnate, crowded, grey pallid to cinnamon

Odour weak Woods, beech, moist places Sept -Nov $1\frac{1}{2} \times 2\frac{3}{4} \times \frac{1}{8}$ in

1127 C 1718 Mass (from the rainbow-like colours, 1718, the rainbow) a P conical, expanded, umbonate, pale ochreous-brown, densely white-fibiillose, marg silky, splitting St stuffed to solid, clavate, densely fibrillose, violet, then pale above the fibrillose, bright-brown A, orange-brown at base within and without G sinuato-adneved, subcrowded, dull ochreous to orange-

Solitary, or in clusters of two to four Woods Oct 11 x 3 x 1 in

1128 C Cookei Quel (after Dr M C Cooke) a b

P conical, hemispherical, umbonate, tawny-yellow marg woolly, white St stuffed, pale yellowish with 4-5 floccose yellow zones G adnate, violet to reddish and rust-colour

Woods, fir 1 × 15 × 1 in

brown

SLEGENUS 6 HYDROCYBE

(From the moist or hygrophanous pileus (1r huder, water, kubc, a head)

Veil thin, fibrillose, rarely collapsing and forming an irregular zone on the stem Pilcus smooth of only covered with white

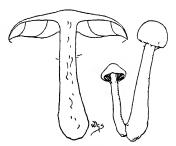


Fig 58 —Cortinarius (Hydrocybe) saturninus Fi and section One half natural size

superficial fibrils, not viscid, but moist when fresh, changing colour when dry, flesh very thin, scissile, rarely more compact in the middle

Stem slightly rigid, subcartilaginous externally, not sheathed, annulate or scaly (Fig 58) Species 1129—1167

a Firmuores Pulcus subfleshy, convex, or campanulato-convex, then expanded, obtuse or at length gibbous, margin at first incurved Stem for the most part attenuate upwards

Skm and cortina white 1129—1137
Skm and gills inclining to violet 1138—1141
Skm and somewhat obsolete veil yellow or rufous 1142—1146

St.m inclining to fuscous Cortina pallid, dull or white Gills dark 1147—1150

b Tinuores Pilcus somewhat membranous, conical, then

expanded, umbonate, umbo acute or rarely obtuse and vanishing, margin at first straight Stem usually almost equal, or attenuate downwards

 Stem white
 1151—1156

 Stem inclining to violet or reddish
 1157—1160

 Stem yellowish, commonly becoming pale
 1161—1163

 Stem inclining to fuscous
 1164—1167

a Firmiores

1129 C firmus Fr (from the compact substance, firmus, firm) a P feruginous to ochreous, marg tan Sr solid, clavate, fibrilloso-striate Z ferruginous G adfixed or emaginate, pale umber to cinnamon

Woods, mixed, grassy places Autumn 5 x 3\frac{1}{4} x 1\frac{1}{4} in

1130 C subferrugineus Fr (from the colour of the pileus, somewhat rust-colour, ferrugo), a c

P umbonate, hygrophanous, dry, ferruginous to watery-cinnamon trwny or tan, V at marg only SY solid, attenuate upwards, adpressedly fibrillose, pallid, saffron-yellow at base G emarginate or adnate, subcrowded, pallid to dark ferruginous Taste and odour unpleasant Woods, oak, amongst rotting pine leaves

Taste and odour unpleasant Woods, oak, amongst rotting pine leaves Sept-Oct 2½ × 4¾ × ¾ in

1131 C armeniaeus Fr (from the colour of the pileus, like the apricot, Pyrus armeniaea) a b c

P obtuse or subumbonate, tawny-cinnamon to ochieous, maily substriate St stuffed, attenuate upwards Z white G adnate, pallid to clay-cinnamon

Woods, pine, uncommon Aug -Oct 2½×2¾×¾ in Var fulsarius Fr P vellow, white when dry

1132 C damaseenus Fr (from the colour of the pileus, like the damson) a

P rivulose when dry, bay-cinnamon or deep umber with a crimson shade to brick-red St solid, equal Z whitish G rounded-adnate, cinnamon or paler than P

Subcrespitose Taste acrid Under trees, grassy places, pastures Sept $3\frac{1}{4} \times 3\frac{1}{2} \times \frac{1}{2}$ in

1188 C privignus Fr (from its being fragile in a non-fragile group, privignus, a stepson) a b

P obtusely umbonate, flat, reflexed, hygrophanous, fuscous to tan St stuffed to hollow, equal, silky with V and Z G rounded-adnate, not crowded, watery-then opaque-cinnamon

Taste scarcely acrid Odour strong, unpleasant Woods, pine, oak, damp places Oct 2½ × 2 × ½ in

1134 C duracinus Fr (from its firmness, durus, hard, acunus, a berry) a b

P obtusely umbonate, pale brick-colour or sienna to tan, or mid sienna and marg tan, marg clad with V St solid, ventricose, attenuato-rooting, imperfectly zoned G adnite or emaiginate, ventricose, pale cinnamon or whitish-sienna

Woods, old pastures, near stumps Aug -Oct $2\frac{1}{2} \times 3 \times \frac{1}{2} \text{ in}$

1185 C illuminus Fr (dark, as contrasted with the allied non-British C candelaris, illuminus, dark) a b

P gibbous, or subumbonate, pale brick-red, or orange with mid orange-sienna to tan St stuffed, equal or slightly attenuate upwards, silky-fibrillose, pallid or tan-ochre, or white above and ochre to sienna below Z ochre G adnate, subcrowded, subdistant, pallid to cinnamon or whitish-sienna

Woods, pine Sept $1\frac{1}{2} \times 2\frac{5}{8} \times \frac{3}{17}$ in

1136 C tortuosus Fr (from the somewhat twisted stem, tortuosus, twisted) a b

P gibbous, ferruginous-bay to brick-red, or waim tan with mid and marg somewhat dark crimson-umber, purple or turkey-red when bruised St stuffed, equal, silvery, spotted with white imperfect zones G adnate, crowded, tawny, purple or turkey-red when bruised

Woods, pine, damp places Autumn 2½ × 4½ × ¾ in

1137 C dilutus Fr (from the watery colour, dilutus) a

P obtuse or subumbonate, opaque bay-brown or pale brick-red to tan, marg white-silky and fringed with V St stuffed, equal, silky-white G deeply emarginate, ventricose, crowded, pale cinnamon or biownish-othre

Odour none Woods, rare Nov 13 x 23 x 3 in

1138 C saturninus Fr (from its colour, saturninus, gloomy) a b
P obtuse or umbonate, dark bay-brown or umber, soon pale, marg silky and appendiculate with V St stuffed to hollow,

marg silky and appendiculate with V \mathcal{S} st stuffed to hollow, attenuate upwards, deep violet or purple to pale dove-grev, partially white-zoned G rounded-adfixed or emarginate, crowded, thin, pale purple-grey to purplish and ferruginous

Sometimes subcæspitose Odour faint Grassy places , Oct –Nov $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ in

- 1139 C imbutus Fr (from the moist, stained flesh, imbuo, to soak) a
 - P flat, obtuse, sienna-brown to pale yellowish, marg white hoary fibrillose St solid, equal, whitish, pale violaceous G rounded-adnate, subdistant, dark bluish-grey to watery-cinnamon Flesh dingy pale violaceous at top of St Subcuspitose Woods Sept 35 x 2 x 1 in
- 1139a C sciophyllus Fi (from the dusky gills, Gr skia, shade, phullon, a leaf) a
 - P thin, convexo-expanded, obtuse, blue-purple-slate, paler towards mid fleshy, edge narrow, silky white, Co white St solid, slightly attenuate upwards, pale lavender to violet, gradually reddish towards the white base, clad with irregular G adnate, crowded, narrow, purple-brownish or dusky umber Flish purple-slate above, salmon-buff and reddish

Single of crespitose Under beeches Autumn 13 x 28 x 1/2 in

- 1140 C castaneus Fr (from its colour, castania, a chestnut) a b c P obtuse or subumbonate, shining fuscous- or purplish-chestnut, St stuffed, fibrillose with V, pale purplish mid darkei above, purple-brownish below Z white or other G adnate or emaiginate thin, violaceous to ferruginous, edge whitish
 - Gregarious, sometimes cuspitose Edible Taste like that of 1394 or 792, odour none or fungoid Woods, pastures, gardens, on the ground, rarely on wood, common June-Nov 18 × 25 × 16 in
- 1141 C bicolor Cooke (from its two prevailing colours, purple and tan) a b
 - P broadly and acutely umbonate, whitish or lilac shaded fugacious, white St solid, equal or attenuate downwards, pallid violet or steel-grey to whitish, zoned G adnate with a tooth, subcrowded, purplish-violet to cinnamon Flish whitish to bright lavender, purple at base of St

Woods, mixed, on the ground Aug -Oct 21 × 21 × 3 in

- 1142 C balaustinus Fr (from the colour of the pileus, like the flower of the pomegranate, Gr balaustion) a
 - P convex, flat, virgate, innato-fibrillose, shaded sienna-crimson or vermilion St solid, fibrilloso-striate, pallid to tawnyferruginous within aid without, zoned red-sienna G adnate, subcrowded, ferruginous-red or paler than P

On the ground, woods, mixed, beech Oct 21 x 23 x 4 in

1143 C colus Fr (from the fibrillose stem, colus, a distaff) a b

P convex, obtuse or obtusely umbonate, brown-rufescent, deep bay or umber, becoming paler St stuffed, attenuate upwards, paler than P, base encircled by blood red or fiery-saffion mycelium G ascending-adnate, subcrowded, pale lilac or brownish to dark cinnamon

Woods, pine Oct 28 × 32 × 4 in

1144 C. isabellinus Fr (from the dirty-yellow colour, like unwashed linen, from Isabel of Austria, daughter of Philip II, who vowed not to change her linen till Ostend was taken) a b

P subumbonate, at first honey-colour then paler St stuffed, equal, striate, colour as P, or tan, imperfectly zoned G rounded-adnate, subdistant, yellow to cinnamon

Woods, pine Autumn 12 × 31 × 11 in

1145 C renidens Fr (from the glistening pileus, renidens, shining) a P expanded, flat, at first broadly and acutely umbonate, hygrophanous, ferruginous-tawny to ochreous St stuffed, at first bulbous, then equal, fibrillose, colour as P, imperfectly zoned yellow G rounded-adnate, subcrowded, pallid cinnamon to tawny

Cæspitose Woods, shady places Sept 3 x 3 x 3 in

1146 C angulosus Fr (from the small, pointed scales of the pileus. angulosus, full of corners) a b

P convex, expanded, shining tawny-yellow, variegated with small sienna or ochreous sc V fugacious, tawny St equal, striate, tan-orange, zoned tawny-sienna G adnate, thick, subdistant, orange-sienna

Woods, hr Aug-Sept 21×21×1 in Var racilescens Mass P some what fleshy St hollow, base somewhat attenuate, tortuous

1147 C uraceus Fr (from its mouse-coloui, (ir hurax, a mouse) a b P umbonate or obtuse, subfibrillose, brown, olive, red or buff St stuffed or hollow, equal, pale or yellowish above, fuscous or blackish below, imperfectly zoned G adnate or sinuate, distant, cinnamon

Taste and odour not unpleasant Woods, pine Nov 17 × 31 × 10 in

1148 C jubarinus Fr (from the shining pileus, jubar, radiance) a b c P umbonate, often repand, rich tawny cinnamon, marg whitesilky with V St stuffed or hollow, fibrilloso-striate, pale tawny within and without G ascending-adnate, ventricose, subdistant, tawny-cinnamon

Woods, pine, grassy places, on pine leaves May $2 \times 2 \frac{1}{8} \times \frac{3}{6}$ in C irregularie Fr has been published as British by Missice and Crossland (Fung Fl Jorks p 97) following Bolton (Hint Lint Func t 13), but this figure and description differ entirely from Fries, Hym Eur p 394, and Hym Succ 11 p 106 Thus-

In Fries-P dry, glabrous St brick red G decurrent, ferruginous Hab

amongst pine leaves

In Bolton-P covered with glutinous matter St pale grey G adnexed or free, pale dusky flesh colour Hab pastures and meadows Bolton's plant is probably an Entoloma with viscid P

1149 C pateriformis Fr (from the shape of the pileus when depressed, like a patera or libation saucer) a b

P plane to depressed, shining dark chestnut, sprinkled with fugacious white fibrils St stuffed or hollow, equal, fibrillose,

white to dusky, zoned sienna G emarginato-adnate, ventricose, brick-red to vinous-ochre

Woods, damp grassy places Sept -Oct 23 × 3 × 15 in

1150 C unimodus Britz (from its uniform colour, unimodus, of one kind) a b

P umbonate, brown, shaded 1 ufous, vinous or sienna St stuffed, equal, paler than P, sometimes pale purple above, imperfectly 2-5-zoned G emarginato-adnate, distant, brown Grassy places Sept - Oct 2 × 3k × ½ in

b Tenutores

- 1151 C dolabratus Fr (from the shape of the stem and gills as seen in section, *dolabra*, a pickaxe) a b
 - P obtusely umbonate, smooth, brick red to tan, marg silky St stuffed or hollow, smooth, white, sometimes faintly ochreous above G rounded-adnate, distant, tawny-cinnamon or orange Odour strong, pungent nauveous, stinking Woods, pine, damp places amonget Vactinum, Sphagnum, etc hept-Nov 3½ × ½ in
- 1152 C rigens Fr (from the rigid stem) a b
- P obtusely umbonnte, smooth, tan clay to tan-whitish St stuffed, cartilaginous externally, zoned G sinuato-adnate, watery-clay to cinnumon or sienna
 - Woods, pine, mixed, uncommon June-Oct $1\frac{3}{4} \times 2\frac{1}{2} \times \frac{1}{16}$ in
- 1153 C Krombholzu Fr (after J V Krombholz) a b
 - P obtusely or acutely umbonate, smooth, yellowish-brown to ochreous, mid always dark, marg appendiculate with V St fistulose, naked, whitish V membranous, fugitive, whitish G rounded-adnexed, dull purplish-brown, edge yellowish
 - Often cuspitose Amongst moss $2\frac{3}{8} \times 4\frac{1}{2} \times \frac{3}{16}$ in Much like a Hypholoma
- 1154 C Reedin Berk (after Miss Reed, sister of Mrs Hussey) a b P conical, expanded, strongly umbonate, brown, mid areolate St solid, bulbous, shaded pale umber G ascending, attenuatofree, ventricose, white to cinnamon
 - Taste and odour none Amongst moss and beech mast May $I_{\frac{1}{4}} \times I_{\frac{1}{4}} \times I_{\frac{3}{16}} \times I_{n}$
- 1155 C leucopus Fr (from the white stem, Gr leukos, white, pous, a foot) a b c
 - P conical, expanded, umbonate, smooth, moist, yellowish or somewhat buff to tan St hollow, equal, attenuate upwards, shining, zoned G adnexed, crowded, ventricose, pallid to cinnamon

Woods, fir, mixed, frequent Sept -Nov 11 × 11 × 15 in

1156 C seandens Fr (from the long wavy stem, scando, to climb) a b P conico-campanulate, obtusely or acutely umbonate, moist, smooth, tawny-ferruginous to honey-colour and tan, marg striate, Co white St fistulose, flexuous, 100ting, greatly attenuate downwards, yellowish to whitish G ascending-adnate, tan to yellow and tawny-cinnamon

Woods, pine, moist places Oct -Nov $1\frac{1}{8} \times 2\frac{1}{2} \times \frac{3}{16}$ in

1157 C erythrinus Fr (Gr eruthros, red) a

P umbonate, smooth, bay-brown-rufous, or vinous-sienna to tawn, Co white St stuffed to hollow, equal, smooth, striate, white, pale purple or violaceous G adneved or somewhat adnate, pallid to pale cinnamon or sienna

Woods, amongst leaves in damp places Oct $1\frac{1}{8} \times 1\frac{1}{8} \times \frac{1}{15}$ in Var argyropus Fr more slender than type St silvery, white mealy above

1158 C decipions Fr (from its resemblance to several other species, decipio, to deceive) a b c

P acutely or obtusely umbonate, smooth, bay-brown to shining brick-red, mid darker St solid, stuffed or hollow, fibillose, pale rufescent, clouded brick-red Z imperfect, fugacious, white G adnate, sometimes with a tooth, crowded, thin, sienna-umber or sienna-tan

Woods, mixed, frequent Sept-Oct $2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ in Var *insignus* Fr P paler, M flexuous, glabrous, G less crowded

1159 C germanus Fr (from its close relationship to adjoining species **armanus**, born of the same parents) a b

P obtusely or acutely umbonate, silky, hygrophanous, fuecous to clay or tan-umber, mid sepia, marg whitish, or wholly tan St fistulose, equal, silvery-pale or somewhat lilac Z fugacious, ochic G adnate, slightly rounded, subdistant, watery-cinnamon

Odour powerful Woods, pine, beech Oct $t \times 2_8 \times \frac{1}{8}$ in

1160 C nanthipes Fr (from the violet stem (or nanthinos, violetcoloured, pous, a foot) a b c

P obtusely umbonate, fibrillose, brown marg yellowish St stuffed, smooth, equal, violaceous, base rufescent, imperfectly zoned G adnexed or adnate subcrowded, brown olivaceous, then dark umber-sienna or deep red-brown

Woods Sept & x 12 x 1/6 in

1161 C detonsus Fr (from the smooth pileus and stem, detondeo, to shear) a c

P subumbonate, slightly silky to somewhat smooth, brick-red, umber or yellowish dull purple at mid G adnate, subdistant, yellowish brick colour

Woods, pine, amongst moss in damp places Sept 1 x 1 x 1 x x 1 in

1162 C obtusus Fr (from the obtuse umbo which at length disappears) a

P bay brown ferruginous, cinnamon, or orange-sicnna to pale ochreous or tan-whitish, marg striate St stuffed to hollow

attenuate downwards, lighter than ${\bf P}$, ${\it Co}$ whitish ${\it G}$ adnate, ventricose, orange-sienna, edge white

Gregarious Odour strong Woods, chiefly pine, requent April–Oct $1\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ in

1163 C acutus Fr (from the acute umbo) a b c

P honey-colour or pale yellow to whitish, marg white fibrillose St fistulose, equal, white-fibrillose, colour as P, zoned G adnate, crowded, thin, white-othre, otherous-cinnamon or water-brown

Scattered, in troops, or crespitose Odour at length nitrous Woods, fir, mixed, moist places, frequent Sept -N ov $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{8}$ in

1164 C Junghuhnii Fr (after Francis Junghuhn) a

P papillate, cinnamon or dull crimson-orange to tawny, marg stritte St stuffed to hollow, reddish, whitish below, adpressedly fuscous-fibrillose G idnate, subdistant, thin, reddish-ochre or olive shaded Flash reddish

Odour none Woods, mossy places Aug $1\frac{1}{2} \times 2\frac{1}{4} \times \frac{3}{10}$ in

1165 C depressus Fr (from the pileus, at length depressed) a

P smooth, vmous- or ochreous-umber, marg at first silky then striate St hollow, attenuate downwards, reddish or yellow-brownish G adnate, ventricose, saffron-yellow, reddish or reddish-brown-ochre

Odour faint of stale fish or cucumber as in 709, which resembles this in habit Woods, moist places Autumn $1\frac{1}{2} \times 1\frac{1}{4} \times \frac{1}{4}$ in

1166 C milvinus Fr (from the coloration, like a kite's back, milvus, a kite) a h

P obtusely umbonate, olivaceous-fawn or olive to tan, marg striate, white squamulose St stuffed, equal, pale fuscous, with white silky spots, or whitish above, tan-brown below, Lv white G adnate, subdistant, ochreous olive-tan to olive Gregarious Odour strong Woods Oct 1 $\frac{1}{2}$ × 2 $\frac{1}{2}$ × 1 in

1167 C fasciatus Fr (from the fibrous-splitting stem, as if in bundles, fasciæ) a b

P acutely umbonate, smooth or subsilky, brick colour or umber, mid sepia St fistulose, equal, splitting longitudinally into fibres, pallid to cinnamon-fuscous, or variegated with bands of white, tan and brown G adnate, subventricose, thin, distant, cinnamon

Woods, pine, damp places, pastures under pines Sept -Oct 13×28×3 in

XLV GOMPHIDIUS Fr

(From the shape, like a large bolt or nail, Gr gomphos)

Veil universal, viscoso-floccose Pileus at length turbinate, glutinous when moist Stem central, continuous and homogeneous with the hymenophore, imperfectly floccoso-annulate or cortinate,

annulus fugitive Gills decurrent, distant, soft and somewhat branched, edge acute, composed of a mucilaginous membrane which often admits of being detached from the hymenophore and stretched

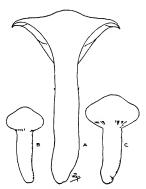


Fig 59—Gomphidius riscidus Fr A, section B young state C half grown example showing floccose veil One third natural size

out into a continuous membrane, not deliquescent Spotes large, fusiform, black or nearly so (Fig 59)

The species grow on the ground, chiefly in pine woods, solitary, subpersistent

The species are most nearly allied to Hygrophorus, but they differ greatly in the annulate stem and the blackish spores. There is also an affinity with Cortinarius, as shown by the cortina, but the spores differ greatly in shape and colour. Species 1168—1171

1168 G glutinosus Fr (from the glutinous pileus) a b c

P becoming flat, smooth, purple-umber or umber-crimson, at first paler St solid, viscid and zoned with the fugitive V, whitish above, yellowish or brownish below, Co white G whitish or olive-whitish, then cincreous Flesh whitish, greyish or pale rose

Sand to be edible Eaten at Hereford Fungus Forays, but not much approved, 1870 Taste watery, mouldy, odour faint Woods, chiefly pine, larch, common July-Nov 4½ × 3¾ × ¾ in Must not be confounded with 185 Var rosess Fr Pross colour, sometimes dark crimson red 57 white above, pale rose below

1169 G viscidus Fr (from the somewhat viscid pileus) a b c

P becoming flat, rich apricot, shaded vermilion, sometimes brick-red, often mottled bright purple St solid, orange, pale purplish above G olive, then crimson-purple, purplish or

whitish-purple *Flesh* yellowish, often with purple stains, rhubarb-colour at base

Said to be edible, odour not unpleasant. Woods, chiefly pine, frequent July-Oct. 48 × 4½ x 1½ in. Var testaceus Fr. P. brick red. Woods, beech. Every intermediate form occurs between this and 1188, including the varieties roseus and testaceus.

i170 G maculatus Fr (from the spotted pileus and stem, maculatus, spotted) a

P becoming flat and depressed, white to brownish-salmon with large umber or blackish spots, marg striate St solid, slightly attenuate downwards, yellow or yellowish below, white, grey or purplish in middle, whitish above G pale slate, shaded umber Piesh reddish

Woods, fir Autumn $2\frac{1}{2}\times2\frac{1}{2}\times\frac{1}{2}\,\mathrm{m}$ Var Cooka Mass St whitish above, blackish at base

1171 G gracilis B & Br (gracilis, slender) a b c

P becoming flat and depressed, pale vinous-brown covered with dingy-fuliginous gluten, at length black-spotted and black-bordered with the drying gluten St solid, slightly attenuate downwards, white-scaly above, yellow and virgite below, clouded vinous-tan G slate-white, white umber or greenish-white

Woods, fir, frequent July-Oct 13 × 2½ × ½ in Berkeley's illustration, Outlinet, t 12, fig 7, does not agree with his description Every inter mediate form occurs between this and 1170

XLVI PAXILLUS Fr

(From the form, like a small stake or peg, paxillus)

Val obsolete Pilcus fleshy, margin at first involute Stem central, excentric or obsolete, when present fleshy, continuous and

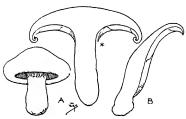


Fig. 60—A Paxillus involutus Fr, entire and in section gills separating from hymenophore at * B, section of P panuoides Fr. One third natural size

homogeneous with the hymenophore Gills decurrent, often anastomising behind and forming spurious pores as in Boletus, readily

separating from the hymenophore owing to the—except in 1185—absence of a trama, usually separated from the flesh of the pileus by a thin differentiated horny or cartilaginous layer Spores whitish to ferruginous (Fig 60)

Fleshy, putrescent fungi, some growing on the ground, others on tree-trunks or sawdust. Some of the members of the first subgenus are allied to *Tricholoma* and *Clitocybe* amongst the white-spored Agarics, those of the second to *Flammula*, amongst the brown-spored Agarics.

The gills of 1181 are sometimes wholly porous, in 1181a always

wholly porous, as in Boletus

Most of the species are said to be edible Species 1172—1186

UBGENUS I LEPISTA Spores dull white—reddish- or fuscous-

pallid in 1174—fainthy ferruginous in 1176 1172—1179

SUBGENUS 2 TAPINIA Pilius usually more or less excentric sometimes lateral and stemless, at length depressed Spinis ferruginous 1180—1186

SUBGENUS I LEPISTA

(From the type, 1174 P lepista)

1172 P giganteus Fr (from its great size) a b c Tan white

P depressed or infundibuliform, not umbonate, marg sulcate very involute St solid, smooth, stained faintly vinous G deeply decurrent, very crowded, inclined to branch and anastomose

Odour strong, like 1394 Woods and pustures , uncommon Aug-Nov $I-l\frac{1}{2}\times 4\frac{1}{2}\times \frac{2}{6}$ in Very different from 190, with which it is often confounded

1173 P Alexandri Fr (from P Alexander, who gathered the first examples described) a b

P plano-depressed, dry, fawn to umber-whitish marg striate, involute St colour as P, or faintly ochreous G sub-decurrent, crowded, yellowish or brownish

Amongst moss, on the ground Sept -Oct 31 x 18 x 7 in

1174 P lepista Fr (from the shape of the pilcus when young lepista, a pan) a b c

P plano-depressed, dry to subviscid, marg involute, undulatoflexuous, rimuloso-squamulose, not striate, whitish or yellowishwhite St solid, whitish sometimes inclining to fuscoubelow G decurrent, very crowded, whitish or pale yellowishwhite

Solitary, sporadic, changeable in habit Odour of rancid meal, or strong and acid Woods, oak, fir, moist places Oct -Nov 5\frac{3}{8} \times 3\frac{1}{4} \times 1 in

1175 P extenuatus Fr (from the thin margin of the pileus, extenuatus, made thin) a b

P campanulato-convex, broadly umbonate or obtuse, tan, clay or yellowish, marg involute, smooth, even or striate St

solid, smooth, somewhat tuberous-rooting, colour as P deeply decurrent, very crowded, white to mouse-colour Woods, fir, grassy places Oct 4 x 21 x 1 in

1176 P panæolus Fr (from the change of colour of the flesh to black, Gr panaiolos, all variegated) a b c

P convexo-plane, depressed, smooth, moist, whitish, marg subinvolute St stuffed, attenuate upwards, striato-fibrillose, rufescent or as P, ochreous below \hat{G} subdecurrent, crowded, becoming watery ferruginous or cinnamon

Subgregations Woods, fir, mixed Oct-Nov 11 x 11 x 11 x 11 m Var spilomæolus Fr P spotted with dots

1177 P orcelloides Cooke & Mass (from its resemblance to 504, Clitopilus oralla) a b

P convexo-plane, silky, white, then clouded greyish or livid, marg involute St solid, attenuate downwards, elastic, silkyfibrillose, livid-ochreous G adnato decurrent, crowded, whitish to salmon-brown

Woods, amongst grass Sept - Nov 21 × 11 × 3 in

1178 P lividus Cooke (from its livid colour) a

P convex, then depressed, dull whitish or livid-ochreous, marg subinvolute St stuffed to hollow, attenuate downwards, fibrillose, whitish G subdecurrent, somewhat crowded,

In small clusters Odour pleasant Woods, fields Oct 2 x 2 x x n Allied to 1179

1179 P revolutus Cooke (from the, at length, slightly revolute margin of the pileus) a

P campanulato-obtuse, pale ochreous, mid darker, marg sometimes pale lavender St solid, attenuate do nwards, whitish or pale lavender G arcuato-decurrent, pallid to clay ()dour of meal Fields Oct 13 × 14 × 4 in

SUBGENUS 2 TAPINIA

(From the pileus, at length depressed, Gr tapunoo, to depress)

1180 P paradoxus Berk ex Cooke (from its being a new, unexpected species, paradoxus, strange, unexpected) a b c

P convex to plane, densely tomentose, deep rufous-umber to yellowish-brown, marg subinvolute St solid, attenuate downwards, sometimes rooting, yellow or reddish, or crimson to rose above, and yellow to brownish below G decurrent, distant, veined, yellow to deep yellow, reddish when bruised

Woods, on the ground, on earth inside hollow trees, oak Aug-Nov 4 × 1 ½ × ⅓ in With the general appearance of a dark pileated 1472

1181 P involutus Fr (from the involute margin of the pileus) a b c P convexo-plane, then depressed, ochreous-ferruginous, marg very involute St solid, slightly enlarged downwards, dull yellowish, dull purplish below G decurrent, branched, sometimes forming elongate Po near the St, pallid, pale or umber-yellow to ferruginous, changing to vinous when bruised

Said to be edible and highly esteemed in Belgium and Russia , tastcless when raw Eaten at Hereford Fungus Foravs, but not much approved, 1870 Woods, by and on stumps , ery common June—Nov $7 \times 24 \times 14$ in A yellow parasitic mould, Hypomy(cs. chrysospe,mus, frequently grows on the gills Var excentricus Mass <math>SI excentric Var subinvolutus W G Sm (Agaricus subinvolutus Batsch) margin of P less involute than type

1181a P porosus Berk (from the porous hymenium) a b

P fleshy, viscid when moist, reddish-claret or olive-brown, marg thin, even, not involute St excentric, tough, equal or attenuate downwards, claret brown, darker below, somewhat reticulate above with the Po G decurrent, shallow, poriform, yellow to sulphur-green, changing to pale blue and then brownish when bruised, dull green when old Po round to elongate, irregular, large to small Flish dull pale vinous-brown, mottled and streaked, darker in stem, changing colour as St

Tasteless Odour very strong, unpleasant Most woods, under firs Autumn 4\(\frac{2}{3}\) \times \(\frac{2}{3}\) in Not unlike 1181, to which it is closely allied, but the margin is never involute and the pores are different in colour Small forms somewhat resimble 1468

1182 P leptopus Fr (from the thin stem, Gr hptos, thin, pous, a foot) $a\ b$

P depressed, excentric downs, then torn-villous scals, fuscous yellowish to yellow-olive-umber, marg subinvolute St solid, attenuate downwards, yellowish G deeply decurrent, sometimes poriform at base yellowish to full yellow or shaded olive Flesh straw-white to yellow

On the ground, about stumps, fir Au, -Sept 3½ × ¾ × ¾ in

1183 P atrotomentosus Fr (from the black downy pileus ater, black, tomentum, down) a b c

P convexo-plane, then depressed, deep opaque umber or deep orange-umber, somewhat orange-sienna at involute marg St solid, equal, somewhat rooting, eventric, rarely lateral, blackish-umber or intense crimson-umber, pale yellowish at apex G subdecurrent, branching and somewhat porous at base, yellowish to deep yellow Flesh white or sulphur-white in P, rose-purple in St, mottled dull purplish

Taste insipid, odour when cut rank and strong like 2086 Stumps, pine, on the ground Aug -Nov 5\hat{3} \times 2\hat{1} \times 1\hat{3} in

1184 P crassus Fr (from the stem, thick above, crassus, thick) a P plane, even, ferruginous, marg subinvolute St stuffed, attenuate downwards, excentric, colour as P G subdecurrent, subdistant, cinnamon

On the ground, woods Nov 31 × 1 × 1 in

- 1185 P panuoldes Fr (from its shape, as in genus Panus, Gr eidos, appearance) a b c Dull, opaque, yellow
 - P conchato dimidiate, imbricate, marg subinvolute St obsolete G decurrent to base, crowded, branched and anastomosing, trama well developed, tan sienna or somewhat pale vellow-ochre, sometimes studded with drops
 - Beech, fir, hawthorn, sawdust, in cellars, on wood, uncommon July-Nov Diam 4 in P sometimes whitish other with reddish marg G sienna The resupinate and cup shaped form is Gomphus periodes Pers
- 186 P Fagi B & Br (from its habitat, stumps of beech, fagus) a

 P dimidiate, crisped, becoming revolute, pallid St obsolete
 G decurrent to base, crisped, orange
 Gregarious Autumn Diam 31 in

XLVII HYGROPHORUS Fr

(From the water-bearing character, Gr hugros, moist, phere, to beat)

Vul universal and viscid or obsolete Pulsus more or less fleshy, glutinous, viscid or watery, margin slightly incurved Skin central, continuous and homogenous with the hymenophore, usually examulate Gills furnished with a subfloccose trama, usually distant and



Fig 6t — A Hygrophorus olivacioalbus Fr entire and in section B H rirgineus Fr entire and in section One third natural 5 ze

whick but acute at the edge, not membranous, often branched and chief, and the hymenium waxy and at length removable from the trama, which is of the same substance as the pileus Spores subjobose or elliptical, smooth, white, pale umber in 1208 (Fig 61)

The species are putrescent, often brilliant in colour as scarlet, prange, sulphur, green and shining-white, they all, except 1215, wrow on the ground, and often appear after the first frosts of late find the colour of the spores, from Ladarius in being non-milky, from "Pussula in not being vesciculoso-rigid, and from Cantharellus in the barp-edged gills Many have a pleasant taste and are edible

Typical species of the genus are best seen in Subgenus 3, H_1 gracybe Species 1187—1228

Subserves a Linacium Pileus glutinous Universal veil viscid, with occasionally a floccose partial veil which is annular or marginal Stem clothed with minute scales or rough with dots above Gills adnato-decurrent

 White or yellowish-white
 1187—1190

 Reddish
 1191—1194

 Tawny or light yellow
 1195—1198

 Olivaceous umber
 1199—1202

 Fuscous-cinereous or livid
 1203—1206

Subgents 2 Camarophyllus Veil none Pileus firm, opaque, moist in rainy weather, not viscid, except 1216, 1219, 1220 and 1224, where the pileus is somewhat viscid Stem even, smooth or fibrillose, not rough with dots Gills distant, arcuate

Gills deeply and at length obconically decurrent 1207—1217 Gills ventricose, sinuato-arcunte or plano-adnate 1218—1224

Subgents 3 Hygrocybe Veil none Pileus viscid when moist, shining when dry, rarely floccoso-scall Stem hollow, except 1225, 1228, stuffed in 1232, soft, not punctate Gills soft Whole fungus thin and watery succulent, fragile, mostly bright coloured and lustrous

Gills decurrent 1225—1234

Gills adnexed, adnate in 1241 and 1243, broadly emarginate in 1244, somewhat separating 1285—1246

SUBGENUS I LIMACIUM

(From the pileus and stem glutinous with the veil, hmax, a slug)

1187 H chrysodon Fr (from the golden, tooth-like scales Gr chrusos, gold, odous, a tooth) a b c White oi sulphur white

P convexo-plane or flat, yellow squamulose at mid and marg St stuffed, equal, colour as P, minutely yellow squamulose above, sometimes imperfectly floccoso-annulate G decurrent, distant, white with a faintly yellowish edge

Woods, lime, beech, under trees, rare Aug –Nov $2\frac{3}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ in Var leucodon Stev, with shining white pubescence

1188 H eburneus Fr (from its ivory-white colour, cbur, ivory) a b c P convexo-plane, flat, repand, marg pubescent, soon naked St stuffed to hollow, equal or nearly so G adnato-decurrent, distant

Said to be edible Odour mild, swectish, not unpleasant or none Woods, grassy roadsides, pastures, frequent Aug Oct 28 × 31/2 × 1/2 in Not unlike 118

- 1189 H Cossus Fr (from its odour of the goat-moth, Cossus ligniperda)

 a b c Faintly yellowish-white
 - P convexo-plane, obtuse, mid slightly ochreous, marg naked St stuffed, slightly attenuate downwards G adnato-decurrent, distant
 - Odour powerful, persistent Woods, oak, frequent Sept -Nov 24 × 34 × 3 in
- 1189a H melizeus Fr (a fanciful name to express its beauty, like the melody of a song, Gr melizo, to sing) a Straw colour
 - P fleshy, convexo-expanded, depressed, even, viscid, marg thin, at first involute St stuffed, attenuate downwards, white punctato-squamulose above G decurrent, thin, distant Odour pleasant Woods Nov 34 × 44 × 8 in

Odour pleasant woods Nov 34 × 42 × 8 in

1189b H discoxanthus Rea (from the yellow middle of the pileus, Gr diskos, a disc, xanthos, yellow) a

P convex, then expanded and depressed, viscid, white then yellowish, deeper coloured at mid, marg becoming brownish with age St solid, attenuate downwards, often curved, viscid, white, soon becoming reddish-brown G somewhat distant, decurrent, veined at base, exceeding marg of P, white, then yellowish to reddish-brown Flish white, becoming reddish in St

Odour pleasant of anise \mongst grass Oct 2 x 1\frac{3}{8} x \frac{1}{4} in

- 1190 H penarius Fr (from its edible qualities, *penus*, provisions) a b I an-whitish
 - P convexo-expanded, umbonate obtuse, then flat, sometimes clouded fawn-vinous, mid palest sienna or ochre St solid, attenuate downwards, fusiform G adnato-decurrent, distant, thick, veined

Taste sweet, odour pleasant Woods, mixed Oct 3\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} in

- 1191 H pulverulentus B & Br (from the powdered stem, pulvis, dust) a b
 - P pulvinate, white, marg tomentose, sometimes rose- or pale rufous-mealy St stuffed, attenuate downwards, fusiform, wholly powdered with rose, rose-sienna or pale rufous meal G decurrent, thick, whitish, edge obtuse

Amongst pine leaves Nov -Dcc 3 x 11 x 1 in

1192 H erubescens Fr (from becoming red, erubesco) a b c

P gibbous, convexo-flat, adpressedly dotted-squamulose, white or pale buff, becoming red, rose-salmon or vinous-crimson-brown, mid sienna St solid, equal or attenuate downwards, red-fibrillose, red or pale dull brownish-purple, pale above G decurrent, distant, narrow, white, red-spotted or rose, or sienna-shaded Flesh white or pale rose

In troops, sometimes in large circles Woods, pine Oct 4 × 3½ × ½ in Perhaps allied to 88

1198 H pudorinus Fr (from its flesh-colour, pudorinus, blushing) a b P convex, flat, salmon-rose, mid darker St solid, attenuate upwards or subventricose, white or salmon-rose above, paler or faintly ochreous below G decurrent, thick, distant, white or pale flesh-colour, edge sometimes salmon

Odour none Woods, fir Oct 4 x 3 x # in

1194 H glutinifer Fr (from its gluten-bearing habit, fero, to carry)

P convex, obtuse, rufescent, mid wrinkled-dotted, buff, deep buff or umber, marg whitish St stuffed, ventricose downwards, white above, gradually sienna-umber below G decurrent, white or faintest olive-white Flesh white

Gregarious Taste mild Woods, grassy places Sept -Oct 43×4×g in Must not be confused with 1201

1195 H arbustivus Fr (from its habitat, plantations, arbustum) a b P convexo-plane, subrepand, innato-fibrillose, smooth, buff-tan, fawn-tan or sienna, marg paler S/ solid to stuffed, equal, white above, tan at base G adnate, subdecurrent, distant, white

Edible Taste and odour pleasant Woods, birch, fir Sept-Dec $2\frac{1}{4} \times 2\frac{1}{8} \times \frac{1}{4}$ in

1196 H aureus Arrh ex Fr (from the golden-yellow pileås, aureus, golden) a

P convex, flat, even St stuffed, equal, pale sulphur above, yellow below, sometimes annulate with the glutinous reddish V G decurrent, distant, thin, whitish to deep sulphur

Woods Nov $1\frac{1}{2} \times 2 \times \frac{1}{4}$ in

1197 H discoideus Fr (from the disc-shaped pileus) a b c

P convex, obtuse, flat, even, smooth, ochreous white, mid pale reddish-brown, sometimes dark St stuffed, slightly attenuate upwards, whitish, faintly ochreous or brownish below G decurrent, becoming distant, faint yellowish-tan

Gregarious, forming rings, solitary Woods, pinc, grassy places. Oct -Nov $2\frac{1}{4} \times 2\frac{4}{4} \times \frac{1}{4}$ in

1198 H aromaticus Berk (from its odour of cinnamon) a b

P convexo-plane, flat, cuticle netted-reticulate and separable, cinnamon St stuffed to hollow, rosy-cinnamon G rounded-adnate to decurrent, separating from hymenophore, salmon Taste acrid, odour spicy Autunn 38 × 28 × 8 in

1199 H limacinus Fr (from its slime, hmax, a slug) a h

P convexo-plane, obtuse, umber, fuliginous or olive, marg paler St solid, equal, fibrilloso-striate, white or sulphur-greenwhite, somewhat sienna below G adnato-decurrent, subdistant, thin, white or pale olive-cinereous

Sometimes coespitose Woods, amongst damp leaves Oct-Nov $3^{\frac{3}{4}} \times 3 \times \frac{1}{2}$ in

- 1200 H olivaceoalbus Fr (from the olivaceous pileus and white gills) a b c
 - P conical, convex, subumbonate, even, smooth St solid, attenuate below, white above, spotted with milky drops, spotted squamulose below with fuscous V, and more or less annulate G adnato-decurrent, distant, veined, white or sulphur-greenish-white

Taste insipid, odour none Woods, woodland pastures, chiefly under pine, oak Aug -Nov 3½ × 4½ × ½ in

- 1201 **H** hypothejus Fr (from the sulphur-colour under the gluten, Gr hupo, under, theson, sulphur) a b c
 - P convex, flat, depressed, gluten leaf-green or olivaceous, umber or deep madder-brown St stuffed to hollow, equal or slightly attenuate downwards, at first yellow-greenish, then yellow, sometimes flesh-colour, fugaciously subannulate G decurrent, distant, white to yellow, sometimes flesh-colour Flesh pale sulphur-yellow

Woods, pine, larch, amongst heather, etc., frequent Sept -Dec 3×3×½ in Must not be confused with 1194

- 1202 H ceracinus Berk (from its odour, like cherry-laurel, Prunus Laurocerasus) a b i
 - P convexo-expanded, obtuse or subumbonate, umber to grey, marg minutely tomentose St solid, equal or attenuate downwards, white G adnato-decuirent, very distant, branched, white

Somewhat gregarious Woods, fir Sept -Oct 28 × 23 × 8 in

1203 H fuscoalbus Fr (from the brown pileus and white gills) a b
P convex-o-plane, obtuse, becoming cinereous, marg whitefloccose St solid, equal, white above, tan below, sometimes
floccoso-annulate G decurrent, somewhat thick

Woods, mixed, amongst moss Sept 13 × 21 × 1 in

- 1204 H agathosmus F1 (from the pleasant odour, Gr agathos, good, osme, seent) a b c
 - P convexo-plane, gibbous, livid grey or dull pale yellowish-olive, mid usually darker St solid to hollow, equal, somewhat fibrilloso-striate, white above, as P below G decurrent, distant, white
 - Odour sweet of anise, or of fruit with spirit Woods, fir Sept-Nov $3\frac{1}{4} \times 2\frac{1}{8} \times \frac{4}{8}$ in
- 1205 H mesotephrus B & Br (from the brown-grey middle of the pileus, Gr mesos, middle, tephros, ash-coloured) a b c
 - P hemispherical to flat, white, mid pale sienna or buff, marg striate St stuffed, attenuate downwards, white, faint sienna or buff below G decurrent, subdistant, white

Woods, damp places, rare Oct 13 x 21 x 1 in

1206 H lividoalbus Fr (from the livid pileus and white gills) a b c P flat, buff-white or white, with white-umber marg St stuffed, equal, somewhat even, glabrous, white G decurrent, subdistant, white

Woods Oct -Nov $2\frac{3}{4} \times 3\frac{3}{4} \times \frac{1}{4}$ in

SUBGENUS 2 CAMAROPHYLLUS

(From the arcuate gills, Gr kamera, a vault, phullon, a leaf)

- **1207 H caprinus** Fr (from the fibrillose stem, as if covered with goat's hair, *caper*, a goat) *a c*
 - P conical, umbonaté, convex, then flat or depressed, streaked-fibrillose, blackish, cinereous-fuliginous or umber or hollow above, equal, pale umber- or giey-white G very distant, white, then glaucous

Woods, pastures, under firs Oct $3\frac{1}{4} \times 4 \times \frac{1}{2}$ in

- 1208 H leporinus Fr (from the colour, like a hare, lipus) a c
 - P convex, gibbous, fibrilloso-floccose, ochre-siemm or umber St solid, rigid, subfusiform, fibrillose, pallid above, brownishtawny below G pale yellowish Flesh brownish above and below

Taste and odour none Woods, downs rare Sept-Oct $2\tilde{i}_8 \times 2\tilde{j}_1 \times \tilde{i}_8$ in 1209 H nemoreus Fr (from the habitat, nemus, 2 grove) a b

- P convexo-expanded, gibbous, then depressed, orange, or yellowish-white-sienna St stuffed, squamulose, fibroso-striate, slightly attenuate downwards, pale biscuit-colour G thick, whitish to orange
 - Edible I aste mild Woods, pastures Oct -Dec $2_{\frac{1}{6}} \times \frac{1}{6} \times \frac{1}{2}$ in
- 1210 H pratensis Fr (from the habitat, pratum, a meadow) a b ϵ Pale buff or yellowish
 - P convex, obtuse or umbonate, then repand, even, smooth St stuffed, attenuate downwards G very distant, thick, veined
 - Edible, but with little flavour Pastures, roadsides, downs, common Aug. Nov. 3\frac{3}{4} \times \frac{9}{2} \times 1000 \time
- 1210a H Karstenii Sacc & Cub (after P A Karsten) a P fleshy, convexo-plane, compact at mid, glabrous, even,
 - whitish St solid, attenuate downwards, wavy, white G deeply decurrent, distant, yellow
 - Woods Nov $3^1 \times 5^3_4 \times ^3_4$ in Distinguished from 1210 by its chalk white downward tapering stem
- 1211 H fœtens Phill (from its nauscous-fetid odour) a b c
 - P convex, plane, smooth, then squamulose, scpia St stuffed, attenuate downwards, paler than P G somewhat thick, yinous-brown-tan, somewhat slate, glaucous-pruinose
 - Odour cadaverous, ordure like, fetid nauseous Grassy places (let -Nov $1 \times 1\frac{1}{2} \times \frac{1}{2}$ in

- 1212 H virgineus Fr (from the pure white colour) a b c
 - P convex, obtuse, flat, depressed, at length cracked and floccose St stuffed, attenuate downwards G very decurrent, somewhat thick
 - Finally Pastures, woods, roadsides, downs Aug Dec $1\frac{\pi}{2} \times 1\frac{\pi}{4} \times \frac{1}{4}$ in Very variable in size Sometimes clouded with beautiful shades of clear iliac, caused by the growth of the mould named $Vertextillum\ Marquandii Must not be confounded with the white form of 1210 or with 1214 Var riserfex Mass ex Cooke <math>V$ rose colour or sulmon within and without, sometimes stripose at base
- 1213 H ventricosus B & Br (from the ventricose stem) a b
 - P convex, unequal, lobed St solid or partially hollow G narrow, forked
 - Amongst grass Sept $1\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ in Often tinged with red from the growth of a parasite Fusisponium which may be the cause of the hypertrophy Greatly resembles one form of 123
- 1214 H niveus Fr (from its snow-white colour, niveus, snow-white) a b c
 - P convex, flat, umbilicate, marg striate St fistulose, equal or slightly attenuate downwards G thin
 - Pastures, roadsides, parks, downs, etc., common Sept Nov. $\frac{7}{8} \times 2 \times \frac{1}{48}$ in Much like 207 in appearance Sometimes minute Some imes stained like, $\frac{5}{8}$ in 1212
- 1215 H Wynniæ B & Br (after Mrs. Lloyd Wynnc) a b c Semitransparent lemon, faintly greenish, sometimes tan or white
 - P convex, umbilicate, or subinfundibuliform, marg striate
 St stuffed, equal, or attenuate downwards & narrow, thin
 - On chips, twigs, old stumps, etc. Oct. $1 \times 1^3_8 \times \frac{1}{8}$ in The habitat points to Micena or Omphalia
- 1216 H russocoriaceus Beik & Mill (from the odour of Russian leather coriacius, leathery) a b c White
 - P convex, expanded, obtuse, slightly viscid St solid, attenuate downwards, smooth G thick, distant, few
 - Odour varying of Polentilla attosangunea Pastures, rare Sept-Dec $1 \times 1_R^2 \times 1_R^2$ in Odour sometimes persistent in dried examples for more than twenty years Must not be confounded with 207
- 1217 H micaeeus B & Br (from the shining mica-like particles on the pileus) a ϵ
 - P hemispherical, flai, slightly depressed, wrinkled, light yellow to cincreous St solid, equal, colour as P, then brown below G pallid umber to clay-sienna
 - Clavey soil Oct 8 × 8 × 17 in Whole plant turns brown in drying
- 1218 H fornicatus Fr (from the pileus, at first convex fornicatus, arched) a b c
 - P becoming expanded and obsoletely broadly umbonate, viscid, white or pale livid, mid brown St solid, hollow or stuffed,

equal, smooth or subscaly, whitish to greyish G adnexed or sinuato-adnexed, ventricose, distant, white

Pastures Oct Nov $3 \times 2\S \times \S$ in Var clivalis Fr, white P thin, fragile, marg incurved, strate, not viscid St short, fragile, attenuate downwards G rather thick

1219 H distans Berk (from the very distant gills) a b

P convex, plane, subdepressed or umbilicate, viscid, white or faintly brownish St solid, attenuate downwards, white, cinercous or pale ochre-tan below G plano-decurrent, few

Sometimes fragrant of essence of almonds, pleasant, sweet Woods, rare Oct $2 \times 1\frac{1}{2} \times \frac{1}{2}$ in

1220 H Clarkii B & Bi (after J Aubrey Clark) a b

P obtuse, convexo-plane, viscid, opaque umber or lividcinereous, marg even, white St solid, stuffed or hollow, equal or attenuate downwards, viscid and white-squ'imulose above, pale umber-scrily below G adnate, distant, broad, thick, veined, ivory-white

Woods, pastures Sept-Oct $3\frac{3}{4} \times 2_8 \times 1\frac{1}{8}$ in II latitabundus Britz is this species, as is Kalchbr Hymen Hung t 24, f 1, incorrectly named H limacuns Γ r

1221 H metapodius Fr (from the stem, sometimes thick above and attenuate below Gr meta, upside down, pous, a foot) a b c

P convex, plane, obtuse, emereous-fuscous or pale rose-shaded sepia St stuffed, unequal, smooth, emereous G adnite, broadly emarginate, distant, veined, grey-white Floriballidgrey, reddish when broken

Sometimes in clus'ers and deformed and matter in clus'ers and deformed new meal. Old mossy pastures Oct-Jan 2½ x I₈ x 8 in At maturity becoming black or deep septa within and without with 1306 and 1307.

1222 H ovinus Fr (from the woolly pileus oris, a sheep) a b c

P campanulate, expanded, subumbonate, revolute, incised, subvised, then obscurely squamulose, dull-sienna or yellow, midsienna-slate, marg tan St somewhat stuffed, almost equal, smooth, tan-grey G emarginate or arcuato-adnate, veined, whitish-grey then rufescent

Odour of new meal Woods, pastures, mossy places, uncommon Sept – Dec $2\frac{1}{4} \times 2\frac{4}{5} \times \frac{1}{2}$ in Sometimes changing to black

1223 H subradiatus Fr (from the radiato-striate pileus) a b

P convex, expanded, subumbonate, pale yellowish, mid sienna and umber, marg sienna, sometimes lilac St stuffed to hollow, equal, smooth, often twisted, whitish or pale lilac above, tan-brownish below G decurrent, somewhat thin, distant, veined, white to pale yellowish

Old pastures, heathy ground Sept -Oct 3½ × 2 × ½ in Var lacmus Fr wholly or almost wholly shining lavender

1224 H irrigatus Fr (from its watery texture, irrigo, to wet) a P convex, obtuse, flat, smooth, viscid, pale fawn, mid brown, marg striate St hollow, equal, smooth, very viscid, colour as P, but with a pale yellowish tinge G adnate with a tooth, subdistant, somewhat thick, veined, white, grey, or tan Woods, fir. grassy places $Oct - Not = 2 \times 28 \times 1$ in

SUBGENUS 3 HYGROCYBE

(From the moist pileus, Gr hugros, moist, kube, a head)

1225 H Colemannanus Blox ex Berk (after W H Coleman) a b c P convexo-expanded, umbonate, dark reddish-umber, marg striate, paler St solid, nearly equal, somewhat silky, salmonwhitish, shaded pale brownish G distant, veined, paler than P to whitish

Grassy places, lawns Oct -Nov 11 x 11 x 1 in

1226 H sciophanus Fr (from its delicacy as compared with 1210, Gr skia, a shadow, phaino, to appear) a

P hemispherical, expanded, obtuse, deep tawny, brown, red or vermilion to white, marg striate, paler St equal, smooth, tawny-jellowish to white G adnate to plano-decurrent, ventricose, distant, colour as P, or inclining to rose or yellow Densely gregarious Grassy and mossy places Autumn 14 × 14 × 4 × 4 in

1227 H lætus Fr (from the bright colour, letus, pleasing) a b c

P convex, flat, slightly depressed, slippery-smooth, deep yellow, tawny, vermilion-orange or salmon, marg striate St fistulose, equal, slippery-smooth, tawny or yellow G plano-decurrent, distant, thin, veined, flesh-colour, whitish, fuliginous or shaded brownish Flesh in P, yellow and orange, in St, tan-yellow

In troops Pastures, downs, frequent Oct-Nov $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{8}$ in

1228 H Houghtoni B & Br (after the Rev Wm Houghton) a b e P convex, flat, umbilicate, glutinous, rugose to mid, flesh-colour with sienna marg, pale vermilion shaded darker or wholly cinnabar, sometimes very pale St fistulose, equal, very glutinous, pale salmon above, pale or dark yellow below, sometimes wholly cunnamon G plano-decurrent, thick, pale yellowish or salmon Flish in P flesh-colour or orange, in St salmon above, tan below

Tasteless , odour strong, fort Amongst grass Oct $1\frac{3}{8} \times 2\frac{7}{8} \times \frac{1}{8}$ in

1229 H vitellinus Fr (from the egg-yellow colour, within and without, vitellus, yolk of egg) a b

P convexo-expanded, smooth, varying lemon-yellow with a suggestion of olive, becoming white, marg plicato-striate SI equal, even, smooth, becoming white G decurrent, subdistant Woods, pastures Oct –Dec 1 × 2½ × $\frac{1}{2}$ in

1230 H eeraceus Fr (from the colour, like yellow wax cera, wax) a b c P convexo-plane, marg striate, not becoming white, mid sometimes vermilion St equal to unequal, even, smooth G adnato-decurrent

In troops Woods, pastures, common Sept -Dec 18 x 31 x 1 in

- 1231 H coccineus Fr (from its scarlet colour, coccineus) a b c
 - P hemispherical, convex plane, smooth, not floccoso-scaly, crimson-scarlet or yellow to orange, clouded and blotted carnine, becoming whitish or yellowish. St even not slipperysmooth, unequal, scarlet above, yellow below, sometimes rose or purplish, becoming whitish or yellowish. G adnate, sometimes with a decurrent tooth, distant, veined, vellow below, purplish above, edge glaucous. Hist crimson, orange or sulphur, external layer of St orange-vermilion.

Pastures, very common June-Nov 23 × 2k × 1 in

- 1232 H miniatus Fr (from its colour, minium, vermilion) a b c
 - P convex, umbilicate, even, smooth then squamulose, becoming rose or orange St stuffed, slightly attenuate downwards, smooth, shining G adnate or slightly decurrent distant, rather thick, yellow or vermilion-shaded Flish of P and external layer of St scarlet
 - Open and boggy places, woods, most banks, pastures—lune Oct $1 \times 2\frac{1}{4} \times \frac{1}{6}$ in Sometimes very small. Does not adhere to paper in drying
- 1283 H turundus Fr (from the flocculose pileus turunda, lint)
 - P convex, plane, depressed or umbilicate, vellow to orange, mid vermilion, sq cimereous-fuscous marg sometimes crenate St equal, even, lustrous, tawns reddish or orange above, sulphur below, base white G slightly to deeply decurrent, white to orange
 - Bots amongst Hydrocotyle -ulgaris, peats soil, triss place. Inly-Oct 1 $\S\times 2^1\times 2^3_R$ in Adheres to priper in drying λ ar mo hs $\mathbb B$ Δ Br P golden yellow squamulosc
- 1234 H mucronellus Fr (from the shape of the pileus, acutely control when young mucro, a sharp point) a
 - P becoming campanulate and repind umbonite scarlet, bright red, orange or yellow then hoary marg striate when moist St equal, even, smooth, yellow or scarlet white below G subdecurrent, yellow, orange above

Fields Dec 1 x 1 x 1 m

1235 H puniesus Fr (from the colour pumans, blood red) a b c

P convex, obtuse, expanded, subumbonate, so trict crimson, sometimes clouded orange, sometimes orange-brown St equal or
ventricose, strate, colour as P, white, yellowish or sulphur at
base G ventricose, thick, distant, white-yellow, often reddish
above Flesh deep orange and sulphur in P, sulphur in St

Pastures, downs, mossy places, sometimes woods frequent June-Nov $4\frac{1}{2} \times 5 \times \frac{7}{4}$ in

- 1236 H obrusseus Fr (from the golden colours, obrussa, the assaying of gold by fire) a b c
 - P campanulate, expanded, obtuse or umbonate, golden sulphuryellow or golden to orange, mid somewhat vermilion St

compressed, unequal, hollow, smooth, even, light or dark sulphur, base tawny or sulphur-white G ventricose, distant, white to sulphur and yellow-orange

Woods, grassy places Aug -Oct 21 × 41 × 3 in

1237 H intermedius Pass (from its resemblance to adjoining species) a

P convex, obtuse, flat, fibrilloso-silky, golden-yellow becoming cinereous, mid orange St compressed, fibrilloso-striate, sulphur to orange G ventricose, distant, whitish then yellowish

Odour of meal Koadsides, grassy places, damp ground Autumn $2\frac{1}{8} \times 2\frac{1}{8} \times \frac{3}{8}$ in Like 1236, but becoming grey

1238 H conicus Fr (from the conical pileus) a b c

P often acute, then expanded and cracked, smooth, blood-scarlet, orange, sulphur-greenish, sulphur or smoky light yellow St equal, fibroso-striate, twisted, sulphur or yellow, reddish at base G ventricose, thin, subcrowded, white, yellowish or sulphur •

Pastures, downs, roadsides, etc., common July-Nov 25 × 3½ × § in Usually, but not invariably, becoming wholly jet black at maturity

1239 H calyptræformis B & Br (from the pointed hood-shaped pileus, calyptra, a hood) a b c

P acutely conical, expanded, repand, splitting, minutely innato-fibrillose, salmon-rose, purplish-rose or white, mid ochreous or salmon St somewhat ventricose, smooth, substriate, white G ventricose, rose to pallid, or as P

Said to be edible Pastures, lawns, etc uncommon July – Oct $3 \times 4\frac{1}{4} \times \frac{3}{8}$ in Var *m eus* Cooke, wholly white

1240 H chlorophanus Fr (from the pale yellow colour, Gr chloros, greenish-yellow, phano to appear) a b c

P hemispherical, expanded, obtuse, plane, smooth, cracked, viscid, sulphur, yellow, orange or scarlet mid sometimes vermilion marg striate M equal, viscid when moist, rich light yellow G emarginato-adnexed, ventricose, thin, distant, yellow Flish yellowish

Woods, grassy and mossy places , common – July-Oct – $1\frac{7}{6} \times 3\frac{1}{4} \times \frac{1}{4}$ in

1241 H psittaeinus Fr (from the yellow or red and green colours,

psittacus, the ringed green parrot) a b c
P campanulate, expanded, umbonate, yellow-reddish or whitish,
smeared with green gluten St equal, even, colour as P
G adnate or with a decurrent tooth, ventricose, thick, subdistant, yellow, green above

Pastures, downs, roadsides, etc., common Aug –Dec $2\frac{1}{2} \times 2\frac{4}{3} \times \frac{1}{4}$ in When young wholly green from the gluten

- 1242 H spadiceus Fr (from the brown pileus, spadiceus, datebrown) a
 - P conical, subacute, campanulate, fibrillose, virgate, covered with olive-bay gluten St equal, dry, fibrillose, tawny or yellow, white below G ventricose, distant, lemon or clear vellow

Mossy and grassy places, on the ground July 28 x 21 x f in Not turning black

- 1243 H unguinosus Fr (from the glutinous pileus and stem, unguinosus, oily) a b
 - P campanulato-convex, obtuse, sepia, umber, fuliginous or yellowish-brown St equal or slightly attenuate above and below, colour as P G adnate with a tooth, ventricose, white

Taste and odour none Woods, pastures, moist places , frequent Aug –Oct $I_8^2 \times 38 \times \frac{1}{4}$ in

- 1244 H nitratus Fr (from the nitrous odour) a b c
 - P convex, obtuse or depressed, at first viscid, then flocculoso-squamulose and rimosely incised fuscous-cinereous, blotted, becoming pale, or deep umber with whitish marg St equal, smooth, lustrous, grey-whitish G broadly emarginate, distant, veined, whitish to glaucous
 - Odour very strong and disagreeable, like compounds of nitrogen are oxygen Woods, pastures, uncommon Aug -\text{Not} \ I_8 \times 2\frac{4}{2} \times \frac{1}{2} \times \text{Must not be confounded with 111 THere is a form larger than type. Var glaucon nitrogen Person and others, necluding myself, re, at the variety as a distinct species Berkeley, I believe, looked upon it as a Pricholoma near 111

XLVIII LACTARIUS Fr

(From the milky juice lac, mlk)

Hymenophore confluent and homogeneous with the stem \$lail\$ more or less obsolete, present in the ragged-appendiculate or pubescent margin of the pileus in some species and in the gluten of others \$Pileus\$ fleshy, somewhat rigid, the texture floccose or vesciculose, not fibrous, often zoned, margin at first involute, milky \$Stim\$ usually central, not corticate, exannulate, milky \$Gills\$ adnato-decurrent, adnate in 1256, 1264, 1270, 1290 and 1302, often brunched, unequal, membranous-waxy, subrigid, edge acute, trama vesiculose, milky \$Spores\$ subglobose, minutely echinulate, white, rarely yellowish (Fig. 62)

Every part of the plant contains numerous anastomosing lactiferous cells filled with densely granular *latex* or milk which is usually white, but in some instances the colour changes on exposure

to the air, in a few cases the milk is coloured before its escape from the cells, it varies in taste from mild to intensely acrid, and is of a resinous nature

The species, except 1305, grow on the ground
The nearest allies

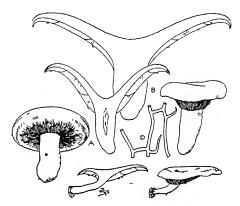


Fig. 62 — A I actarius torn mosus Fr. B. L. piperatus Fr. C. L. chiqui. Fi. entire and in section. One third natural size - D. Lactiferous tubes of L. su unlet. Fi. - X 100

are found in Russula, which has no latex. Some are edible, others are poisonous

The Lactarn of France and Italy are popularly termed 'cows' or "gouts", the acrid species are called "peperone" and "power blane"

The selectia and perfect plants of 248 sometimes grow from the gills of Lactaru Spharonema intreum (Spharopsidea) frequently grows on the Lactaru and Russula The mould Pencultum macrosporum occurs on Lactarus Species 1245—1305

PIPERITES Stim central Gills not changing colour, not pruinose Milk white, usually acrid

- a Tricholomoidea Pileus viscid when moist, margin at first involute and tomentose 1245—1258
- b Limacina Pileus viscid when moist, pelliculose, margin usually naked 1254—1261
- c Priperata Pileus without a pellicle, dry, usually not shining 1262—1274

Dapetes Stem central Gills naked Milk from the first deeply coloured 1275, 1276

RUSSULARLS Stem central Gills pallid, then changing colour to darker, glancing when turned to the light, at length white prunose Milk at first white, mild or from mild turning acrid

Pileus at first viscid 1277—1283

Pileus not lustrous, squamulose, villous or pruinose

1284—1294

Pileus lustrous, smooth 1295—1304

PLEUROPODÆ Stem excentric or lateral Growing on trunks 1305

PIPFRITES.

a Tricholomoidea

- 1245 L serobiculatus Fr (from the pitted stem scrobis, a trench)
 - P convex, then infundibuliform, villous-down, marg at first appendiculate, yellowish or buff St stuffed to hollow, equal, light vellowish or white above, $tan b \epsilon low G thin, crowded$, whitish to yellowish Mtl white, then sulphur-yellowish

- 1246 L intermedius B & Br (from its position between 1245, 1247 and 1248) $a\ b$
 - P convex, then infundibultform, smooth, otherous or brownish-yellow, somewhat round marg at first ragged-tomentose. St solid to hollow, equal, pitted as in 1245, yellowish G whitish F(s,t) white then pale sulphur M(t) white then yellow-white Somewhat acrid. Woods $3\frac{1}{8} \times 1\frac{1}{2} \times \frac{1}{2}$ in Perhaps the same as 1248
- 1247 L torminosus Fi (from its prinful acridity termina, gripes)
 - P convex, then infundibuliform, becoming even, somewhat zoned, pallid flesh-colour, marg ragged-fibrillose, white St stuffed to hollow, equal or attenuate downwards, even or obsoletely pitted, white, palest rose above, other or tan below G very thin, crowded, paler than P or tan Mill white
 - Eaten with oil and vinegar in Kussia after being preserved in salt. Very acrid odour none. Mixed woods on the ground, fields, amongst grass, heather, etc., common Aug.—Nov. 5\(^1\) x 1\(\frac{1}{2}\) x g in Often confounded with 1276. Hypomycis terminosus, a parasitic white mould, changing to vellow and dark brown is frequent on the gills.
- 1248 L cilicioides Fr (from the tomentose pileus Gr /ulikuon, goat's-han cloth, udos, appearance) a b c
 - P convex, then infundibuliform, wholly tomentose, flesh colour to yellowish or fuscous, marg fibrillose-woolly St solid to hollow, equal or attenuate downwards, even, pallid G crowded, branched, white to yellowish Flesh yellowish-white Milk white to yellowish-white
 - Woods, pine, on the ground, frequent Aug -\ov 6½ × 2½ × 1¾ in Intermediate between 1247 and 1250

- 1249 L lateritioroseus Karst (from the colour, lateritius, brickred, roscus, ross) a
 - P convex, then subinfundibuliform or umbilicate, wavy, usually zoneless, sometimes flesh-colour, becoming pale or lavender-salmon, mid granuloso-squamulose. St stuffed to hollow, unequal, slightly flocculose, colour as P or palei. G subdistant, furcate, veined, colour as St, becoming yellowish Mill white.

Acrid Woods Autumn 31 x 2 x 1 in

- 1250 L turpis Fr (from its ugly appearance, turpis, base) a b c
 - P convex, then depressed, rigid, usually roneless, umber or olivaceous St solid to hollow, equal or attenuate downwards (sometimes upwards), pallid or dark olivaceous or shaded pale slate G thin, crowded, furcate, white straw-colour or tan Phish white or shaded pale slate Milk white
 - Poisonous (regarious Woods fir, mixed roadsides, etc., commor Sept.-Nov. Sex. $2\frac{1}{2} \times 1\frac{1}{8}$ in Habit of 1181 Var plumbeus Cooke P blackish brown
- 1251 L controversus 1r (from the pileus, at first convex then infundibuliform) a b c
 - P convex, then infundibuliform, rigid, flocculose to smooth, white, spotted and zoned blood red, varying flesh-colour. St solid, equal, sometimes executive, viseid, white or spotted as P. G. thin, very crowded, branched, pallid, white-flesh-colour. Milk white.
 - Taste very acrid and pungent odour weak, pleasant. Woods, pastures, under poplars, chestnus, uncommon $\lambda u_K = Nos 8 \times 3\frac{1}{8} \times 1\frac{1}{8}$ in Said by Dr Padham to be eaten at Lucca under the name of 16 Lucchese Goat 19 .
- 1252 L pubescens Fr (from the pubescent margin of the pileus) a b P convex, then broadly infundibuliform, zoneless even, dry, shining, whitish to flesh-colour, rose, othreous or faint brown St stuffed, attenuate downwards, even, colour as P G crowded, pale flesh-colour or yellowish to salmon Milk white.
 - Taste very acrid , odour none or pungent pebbles Sept -Oct $4 \times r_8 \times \frac{1}{3}$ in
- 1253 L aspideus Fr (from the shield-like shape of the pilcus, aspis, a shield) ab
 - P gibbous-convex then depressed, straw-colour, pile yellowish, or faintly lilac-shaded, marg with a tomentose, decidious, white zone S' solid to stuffed, equal or attenuate downwards, whitish G somewhat thick, whitish, faintly shaded filac Flesh colour as G Milk white then lilac

Taste sweet Damp pastures, moist places Sept 21 × 11 × 8 in

b Limacinæ

- 1254 L insulsus Fr (from its indifferent resemblance to 1276, insulsus, insipid) a b c
 - P umbilicate then deeply infundibuliform, rigid, smooth, yellow or orange mid sienna-yellow, usually zoned, spotty-palesienna St solid to hollow, whitish or faint yellowish G decurrent, very crowded, forked at base, colour as St Milk white
 - Taste acrid Mixed woods and their borders, pastures , common Aug Oct $3_6 \times 1_2^1 \times \frac{7}{8}$ in Pileus sometimes 7 in in diam
- 1255 L zonarius Fr (from the zoned pileus) a b c
 - P convexo-plane, depressed, even, smooth, 4- to 7- ι 0 near the minutely ruguloso-flocculose marg, pallid orange or pale yellowish, mid sometimes umber SI solid, smooth dry, white then yellowish G thin, subcrowded, branched, whitish to dull yellowish, dingy when bruised Mil white
 - Taste very acrid, strong, disagrecable Woods and their borders, grassy places, rare Aug-Oct $4\frac{1}{8} \times 1\frac{8}{8} \times \frac{7}{8}$ in
- 1256 L utilis Fr (from its edible qualities, utilis, useful) a
 - P convexo-plane, obtuse, then infundibuliform, even smooth, tan, pale dull ochre or livid 5t solid to hollow even colour as P G adnate, crowded, pallid Mill white
 - Highly estecmed as an esculent in Russia Taste mild to slightly acrid Woods, on the ground $$\operatorname{Autumn}$$ $5\% \times 2 \times 1\frac{1}{2}$ in Sometimes olive shaded
- 1257 L blennius Fr (from the slimy pileus, Gr blinnes, mucus)
 a b c
 - P plano-depressed, pallid olivaceous, eruginous-grey or indigosepia, shining with gluten mid dark, marg at first slightly downy. St stuffed to hollow, subequal or attenuate downwards, even, viscid, pallid above, pallid grey or pale slate. G thin, crowded, white, einerous when brused. Milk white
- 1258 L hysginus Fr (from the colour of the pileus, Gi husginon, a crimson dye) a b c
 - P umbilicate depressed, plane, even, red flesh-colour, reddishbrown or dark brownish sienna-salmon, somewhat zoned pale umber St solid to hollow, attenuate downwards, smooth, warm sienna-yellowish, somewhat spotted G thin, crowded, white to primrose or yellow-ochreous Milk white
 - Suspected poisonous Taste acrid Woods, under beech, amongst grass, rare Aug-Nov 23 × 2 × 4 m
- 1259 L trivialis Fr (from its commonness, trivialis, common)
 - P convex, sometimes umbonate, then depressed and infundibuliform, even, smooth, zoneless, tan-umber-lavender, dull orange-

buff or dark to pale lurid St hollow, even, smooth, slippery, palest tan-grey, white, yellowish or paler than P G somewhat thin, crowded, whitish or pale yellowish Milk white

Taste very acrid Woods, chiefly pine, moist mossy places, uncommon Aug-Oct 6 x 3 x 3 m

1260 L eireellatus Fr (from the zones on the pileus, arcellus, a small ring) a b c

P convexo-plane then depressed, umbilicate, even, smooth, rufous, fuscous or umber becoming pale, zoned grey or claretbrown St solid, equal, or attenuate downwards, even, smooth, pale vellowish, shaded faintly brownish or steel-whitish thin, crowded, forked, whitish to pale yellowish Milk white

Taste stinging acrid odour not unpleasant. Woods, amongst grass, rare Sept -Oct 4 × 2\frac{1}{4} × \gamma\frac{1}{3} in Must not be confounded with 1262 or 1263

1261 L uvidus Fr (from the moist, clammy pileus, uvidus, moist) abc

P convex, plane, then depressed, even, smooth, usually zoneless, pale lilac-umber on a yellowish ground, blotted lilac St hollow, smooth, viscid, whitish or light-yellowish, sometimes spotted yellow-ferruginous or lilac G thin, crowded, unequal, somewhat veined, whitish or vellowish, lilac when bruised Milk white, becoming bright lilac

Taste insignd to acrid odour weak, nauscous puncent, somewhat aromatic Woods, moist places uncommon Aug - Nov 38 × 28 × 1 in

c Piperata

- 1262 L flexuosus (from the frequently undulate margin of the pileus flexus, a bending) a b c
 - P hard, plane, depressed, subinfundibuliform, smooth to rivulososcaly, dull, zoned or zoncless, lead-grey, violet grey, violetbrown or purplish-umber St solid, equal or attenuate downwards, whitish or greyish, base yellowish G thick, distant, branched, light vellowish to whitish flesh-colour Milk white
 - Said to be edible laste when raw very acrid Woods, pine July-Oct 5×3f×1f in Var rosevzonatus Ir P rosy flesh colour with darker z
- 1263 L pyrogalus Fr (from the very acrid milk, Gr pur, fire, sala, milk) a b c
 - P convex, plane, depressed, smooth, cinereous-grey, dull yellow or umber tan, zoned sienna or madder-brown St stutted to hollow, usually attenuate downwards, dull pallid-whitish or paler than P and G G thin, subdistant, light wax-yellow, tan-ochre or shaded reddish-salmon or straw-colour Milk white Poisonous Odour sometimes of apple Woods, fir, pastures, frequent
 - Aug -\ov 3\ \ti \ \frac{1}{2} in Sometimes very small
- 1264 L squalidus Fr (from the dingy colouring, squalidus, dirty) a b
 - P convex, umbilicate, depressed, smooth, tan-olive-green with darker mid or vellowish-olive-umber St solid, equal, smooth,

whitish or pale brownish G adnate, narrow, yellowish or shaded faint olive or tan Milk white

Taste mild to sweet Woods, beech, moist mossy places Oct $3\frac{4}{3} \times 3\frac{1}{4} \times \frac{1}{2}$ in

1265 L eapsieum Schulz ex Fr (from the peppery taste, capsicum, red-pepper) a

P convex, obtuse, pulvinate, dark chestnut or deep sienna, mid paler St solid, equal, whitish with tawny or rufescent fibres, paler above G subcrowded, tawny, somewhat orange or ochreous-sienna Flesh yellowish, becoming pale sienna when broken Milk white

Woods, under birches, grassy places Sept 21 × 11 × 8 in

1265a L glaucescens Crossl (glaucescens, becoming sea-green)

P fleshy, rigid, convex, umbilicato-depressed, smooth, glabrous, dry, zoneless, white then cream-colour, slightly spotted ochreous-white, marg involute St solid, attenuate downwards, smooth, compact, colour as P G adfixed, densely crowded, somewhat forked, narrow, colour as P Milk copious, white, then pale glaucous-green

Taste acrid Woods Aug -Sept $2\frac{1}{2} \times 1\frac{7}{8} \times \frac{5}{8}$ in

1266 L chrysorrheus Fr (from the gold-coloured milk, Gr chrusos, gold, rheo, to flow) a b c

P umbilicate then infundibuliform, pale yellow-pink, brownish-salmon, apricot or whitish, zoned reddish-brown St stuffed to hollow, equal, even, white or shaded yellowish-salmon G very thin, crowded, slightly furcate, pallid-yellowish, salmon or tan-straw colour Flesh white, bright sulphur when broken Milk white

Very acrid $\;$ Woods, beech, mixed , frequent $\;$ Aug –Oct $\;$ 2% \times 2% \times 8 in

1267 L acris Fr (from the acrid taste) a b

P convex, plane, sometimes subumbonate, at length depressed, scarcely zoned, umber or deep umber St stuffed to hollow, slightly attenuate downwards, tan, shaded umber G adnatorounded to subdecurrent, thin, pallid to yellow flesh-colour or pale ochre, sparingly-spotted sienna-pink Milk white, then reddish

Odour strong, stinking Woods , rare Aug – Nov 4 × 2 × $\frac{1}{2}$ in Often grows in company with 1289

1267a L violaseens Fr (from the change of colour in the flesh and milk to pale violet) a c

P fleshy, depressed, glabrous, ashy, z smoky St solid, sometimes becoming hollow, equal, ashy- or greyish-white G somewhat crowded, white Milk white, then violaceous or pale lavender Flesh changing as milk

Poisonous Taste sweet Woods, rare Autumn 34 x 24 x 4 in

- 1268 L umbrinus Fr (from the colour of the pileus) a b c
 - P convexo-plane, depressed, rivuloso-floccose, umber to deep sepia or dark rufous-brown, zoneless or obscurely zoned darker St solid, white to greyish, or as P G crowded, pallidyellowish, grey-spotted Milk white, becoming greyish

Acrid Pine woods, damp places Autumn 31 × 11 × 1 in

1269 L plumbeus Fr (from the colour, plumbeus, leaden) a b c P convex, then depressed and infundibuliform, greyish-brown, sooty-sepia with a shade of olive or tin-olive mid darker St solid, equal, paler than P or tan-ochre G crowded, vellowish grey white Milk white

Woods Nov 91 x 31 x 11 in

- 1270 L pergamenus Fr (from its parchment colour, pergamena, parchment) a b White or pale yellowish
 - P convex, plano-depressed, smooth, slightly wrinkled, oneless St stuffed, smooth, equal or slightly attenuate downwards G adnate, very crowded, becoming straw-colour Milk white

Taste very world Woods Aug -Oct 31 x 31 x g in

- 1271 L piperatus Fr (from the peppery taste, piper, pepper) a b c
 White.
 - P convex, then depressed and infundibuliform, rigid, even, smooth, zoneless, often spotted faint umber or grey St solid, attenuate downwards, subpruinose G crowded, branched, becoming spotted dull, pale brownish-yellow Milk copious, white
 - Said to be edible, poisonous when raw Odour none Mixed woods, common July-Oct 7½ × 3 × 1½ in Sometimes clouded yellowish within and without
- 1272 L vellereus Fr (from the pubescent pileus, vellus, fleecε) a b c White
 - P convex to depressed, dry, zoncless, rigid, becoming pale yellowish or spotted pale brownish or yellowish St solid, equal or attenuate downwards, thinly pubescent, pale sulphur within at base G somewhat thick, subdistant, branched Flesh white, changing to pale sulphur Mtb sparing, sometimes absent, white, sometimes pale sulphur, changing to white

Poisonous laste bitter acrid Woods, beech , common \log -Dec $\delta \times 6 \times 2\frac{1}{4}$ in

- 1273 L scotleus B & Br (found first in Scotland) a
 - P convex to slightly depressed, pubescent, pale yellowish or faint brownish St solid, equal, pale flesh-colour G thin, broad, scarcely branched, pallid-white Milk white
 - Taste very acrid , odour pungent Amongst moss Autumn $2\frac{1}{8} \times 1\frac{1}{8} \times \frac{3}{8}$ in

1274 L involutus Sopp ex Cooke (from the involute margin of the pileus) *a b* White or faintly ochreous

P convex to slightly depressed, smooth, even, marg silky St solid, equal G very crowded, narrow, sometimes furcate Milk white

Taste very acrid Woods, on the ground Autumn 1\frac{3}{4} \times 1\frac{1}{8} \times \frac{1}{4} \times 1 \text{ Very firm and rigid as in 1272

DAPETES

1275 L deliciosus Fr (from its flavour when cooked) a b c

P convex to infundibuliform, smooth, subviscid, dull orangeyellow, roned orange-sienna, sometimes clouded green St stuffed to hollow, equal, colour as P, usually spotted orangereddish G crowded, saffron, green when bruised Flesh orange, becoming green when cut Milk red-saffron, then green

Gregarious Edible Sometimes acrid when raw, odour aromatic Woods, pine July-Nov 5 × 2½ × ½ in This and 1295 are the "vegetable sheeps kidneys" of French cooks The gills are often attacked by a reddish parasitic fungus, Hypomyces lateritus Epicoccum micropus grows upon this species when decaying The deep orange milk of this plant must not be confounded with the sulphur coloured milk of 2280

1276 L sanguifluus Fr (from the blood-coloured milk, sanguis, blood, fluo, to flow) a b

P convexo-depressed, smooth, sometimes zoned, blood-red St narrowed upwards, smooth, pallid G thin, white Milk blood-red, changing to green

Taste mild Oct $2\frac{1}{2} \times 2 \times \frac{2}{4}$ in Closely allied to 1275 but known ν , its blood red, not orange, milk

RUSSULARES

- 1277 L pallidus Fr (from its pale colour) a b c Clay flesh-colour or dull buff-whitish
 - P convex to depressed, smooth, zoneless $S\ell$ stuffed to hollow equal, even, smooth G somewhat thin, crowded, slightl furcate Milk white
 - Taste somewhat mild, almost sweet $\;$ Woods, beech, mixed , uncommon Sept –Oct $\;$ 4 \times 2½ \times 3 in
- 1278 L quietus Fr (from its mild taste, quietus, mild) a b c
 - P convex to depressed, rich sienna, clouded, splashed and som what zoned darker St stuffed, smooth, rufescent or as 1 G somewhat furcate at base, whitish to yellowish sienn Flesh white to rufescent Milk white
 - Taste sweet, somewhat of walnuts, odour oily, bug like common July-Nov 4 × 2\frac{3}{2} \times \frac{1}{8} in Not unlike 202
- 1279 L aurantiaeus Fr (from the bright orange-coloured piles and stem, aurantiaeus, orange-coloured) a b
 - P plano-depressed, even, zoneless St stuffed, smoon G crowded, very decurrent, paler than P Milk white
 - Taste slowly acrid Woods, on the ground amongst moss Ser $2\frac{1}{2} \times 2 \times \frac{8}{8}$ in

- 1280 L theiogalus Fr (from the sulphur-coloured milk, Gr theon, brimstone, yala, milk) a b c
 - P convex to infundibuliform, sometimes papillate, even, smooth, somewhat rufous-tawny with a shade of liver, marg crenulate 57 stuffed to hollow, equal, or nearly so, even, rufous-salmon within and without G adnato-decurrent, thin, somewhat distant, faintly ochreous to deep yellow or rufescent Mulk white, slowly becoming sulphur
 - Taste mild, then slowly acrid, odour none Woods, mixed, pine, oak, amongst heather, sometimes on dead root stocks of *Pierri aquilina*, frequent $Au_{\xi} = Nov = 2\frac{1}{8} \times \frac{2}{8} \times \frac{2}{8}$ in The yellow milk of this species must not be confounded with the deep orange milk of 1276
- 1281 L eremor Fr (from the thick milk, cremor, thick juice) a b.
 Thin, fragile
 - P convex to plano depressed, minutely punctulate, trwny, zoneless mid darker marg strict. St hollow, equal, colour as P G adnate, subdistant, pallid, or as P Milk somewhat transparent white
 - laste mild or slowly acrid Woods, lirch, beech, etc Sept 41×11×8 in Vir pauper Karst, smiller P., in in diam
- 1282 L vietus Fr (from its appearance, rietus, shrivelled) a b c
 - P convex, then depressed, somewhat papillate, even, smooth, fleshcoloui or livid-grey, becoming whitish-grey, mid pale umber st stuffed to hollow, equal or attenuate downwards, pale rose-brown or as P G somewhat crowded, white to yellowish Milk white, then pale lavender grey
 - Taste mild, becoming slowly acrid odour faint but pungent Woods, mixed, damp, grassy places, on the ground Sept-Oct 3\frac{1}{3}\times \frac{1}{3}\times \fr
- 1283 L cyathula Fr (from the cup-shaped pileus, cyathula, a little cup) a b
 - P convexo plane, depressed, sometimes papillose, rimoso-rivulose, flesh-colour, pale yellowish or ivory, lavender-shaded, zoned, yellowish-brown or zoneless St stuffed, equal, even, smooth, whitish or yellowish, lavender-shaded G very crowded, thin, whitish, then yellowish-salmon Milk white
 - In troops I aste acrid, odour at first none, then strong of bugs Woods, birch, damp ground Aug -Oct $2\frac{1}{8} \times 2\frac{1}{4} \times \frac{1}{4}$ in
- 1284 L rufus Fr (from the reddish colour) a b c
 - P plane to infundibuliform, usually umbonate, deep crimsonsicina, sometime paler, zoncless or with one zone, marg sometimes sulcate St stuffed, equal, rufescent, paler than P G ochreous to rufescent Milk white
 - Poisonous Taste very acrid bitter, odour none Woods, pine, etc., dry places June-Nov $3\frac{7}{8} \times 2\frac{1}{8} \times \frac{1}{2}$ in
- 1285 L helvus Fr (from the colour, helvus, pale yellowish) a b c
 - P convex to slightly depressed, sometimes subumbonate, granuloso-floccose, sometimes sienna-biscuit, sometimes faintly i to 2-zoned St stuffed to hollow, equal, pale buff

G crowded, whitish, pale yellowish or pale salmon Milk watery-white

Γaste mild, sweet then slightly acrid, odour faint, sweetish woods, fir, mossy places, swampy ground Aug -Oct 3½ × 2½ × ⅓ in

1286 L tomentosus Cooke (from the woolly tomentose pileus) a b P at first umbonate, then infundibuliform, dull salmon to deep sienna St stuffed to hollow, equal, naked, smooth, pallid or salmon above, ochreous below red-streaked at mid G yellow flesh-colour or ochre, or white-ochre near edge and red above Mill. whitish

Taste mild to slightly acrid , odour pleasant . On the ground, damp places $4\frac{1}{8} \times 1\frac{3}{4} \times \frac{1}{2}$ in . Sometimes confused with 1285

1287 L mammosus Fr (from the papillate pileus, mamma, a breast) a b

P convex to depressed, at first acutely umbonate, dry, greyfuscous or dull pale indigo-greenish, zoneless or faintly zoned, marg white pubescent St stuffed to hollow, equal, pubescent, faint yellowish or brownish G crowded, whitish or pale yellowish to pallid ferruginous Milk white

Taste slowly acrid, odour none Woods, pine, on the ground Oct $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{4}$ in Var monstrosus Cooke Larger than type

1288 L glyciosmus Fr (from the sweet smell, Gr glukus, sweet, osme, smell) a b c

P convex to slightly depressed, acutely papillate, yellowish, shaded over with pale lavender-purple, zoned pale purplish St stuffed to hollow, pubescent, whitish or light yellowish, tawny when bruised G crowded, thin, white to straw-ochreous Milk somewhat scanty, white, unchanging or changing to pale straw-green

Taste mild, then slowly acrid, odour strong, pungent sweet, fragrant aromatic. Woods mixed, chiefly pinc, on the ground Sept-Nov $2\frac{7}{8} \times 2\frac{1}{2} \times \frac{3}{8}$ in

1289 L fuliginosus Fr (from the smoky colour, fuligo, soot) a b c P convex to subinfundibuliform, dry, full velvety ochreous- or smoky-brown, marg paler St stuffed, equal or attenuate downwards, white, tan or pale tan-umber G somewhat distant, white, then pale ochreous, pale indian-red when bruised Milk white, sometimes watery, changing to rose and saffron Flesh changing to vinous when cut

Probably poisonous Taste mild, becoming very acrid nauseous odour faint nauseous pungent Shady woods, frequent Aug –Oct $4\frac{1}{2}\times2\frac{\pi}{3}\times1$ in Often growing in company with 1267

1290 L pienus Fr (from the black pileus, pienus, pitch-black) a b P convex, obtuse or subumbonate, minutely velvety, umber to blackish-umber St stuffed, equal, smooth, paler than P or almost white, brownish below G adnate, thin, very crowded, pale ochreous to rufous tan Milk white

Taste acrid Woods, pine dried turfy swamps Aug -Oct 2½ × 2 × 8 in

- 1291 L lignyotus Fr (from the woody substance, lignum, wood, Gr ous, an ear) a
 - P convex to subinfundibuliform, umbonate, plicato-rugulose, velvety, deep umber-purplish or opaque sooty-umber St solid to stuffed, equal, striate above, colour as P, yellowish or whitish at base G adnexed to decurrent, somewhat crowded, whitish or yellowish, reddish when bruised Flesh white, changing to ochreous, saffion and ferruginous Milk white, scanty, changing through reddish to saffron

Poisonous Taste mild, sweet, pleasant, odour slight Amongst moss, in damp places under firs, beech Oct $3\frac{1}{4} \times 3 \times \frac{1}{4}$ in

1292 L lilacinus Fr (from the lilac pileus) a b Fragile

P convex to depressed, papillate, floccose, rosy-filac, zoneless, marg tan S' stuffed to hollow, pale yellowish-brown or dull rose, lilac-shaded, or as P, white mealy G subdistant, pallid flesh-colour or yellowish-white MilK white, copious laste acrd Woods, damp places $Aug - Oct 2\frac{1}{2} \times 1\frac{1}{8} \times \frac{1}{2} \ln$

1293 L retisporus Mass (from the reticulate spores) a b

P convex, then plane and depressed, minutely velvety, dark smoky-brown St equal, solid, even, glabrous, paler than P or pale sepia or greyish G subdistant, deeply sinuate, slightly adnexed, pale ochreous with darkei spots Flesh dull yellowish or whitish-salmon, becoming reddish when cut Milk sweet, white, changing to brown and becoming thick and tenticious

Under beeches, on the ground Sept 31 × 21 × 8 in

1294 L spinosulus Quel (from the spines on the pileus, spinosulus, full of little spines) a

P convex to depressed, acutely umbonate, clad with minute, erect spines, brick-red to rosy lilac, often zoned and spotted St stuffed to hollow, rugose, granulate, shining, colour as P G thin, yellowish flesh-colour to yellowish Milk white

Taste acrid On the ground Sept 11 × 11 × 15 in

- 1295 L volemus Fr (from its resemblance to a certain large pear—the "Red Warden" or baking-pear—voluma-pira) a b c
 - P plano-convex to subdepressed, compact, bright rufous-tawny or golden, becoming pale, mid deep-sienna, zoneless St solid to stuffed, equal, prunose, colour as P G thin, crowded, white to yellowish or yellow, orange-umber when wounded Milk white, sometimes changing to yellow
 - Edible Taste sweet, pleasant when raw Woods, mixed Oct 4½ × 4 × 1¹ in The "Golden Brotling" of Germany and Hungary With 1276 the "vegetable sheeps kidneys" of French cooks
- 1296 L ichoratus Fr (from the watery milk, Gr ichor, lymph) a b P plane to depressed, dry, tawny reddish, mid brown-sienna, marg sienna-yellow, sometimes zoned St solid, equal, colour

as P G scarcely crowded, white to tan-yellow or ochreous Milk white, unchangeable

Taste sweet, odour strong Woods Oct 21 x 25 x 1 in

- 1297 L serifluus Fr (from the watery milk, serum, whey, fluo, to flow) a b c
 - P plane to depressed, dry, brown-tawny or orange-reddish, sometimes crimson-purplish, zoneless or with one faint zone St solid, yellowish, red-salmon or paler than P G crowded, colour as St, yellowish or ochre-brownish especially thin in examples from wet places
 - Taste almost mild , odour disagreeable, but like Woods, mixed, damp places , frequent July-Nov $3 \times 2\frac{1}{4} \times \frac{1}{4}$ in Resembling 193
- 1298 L mitissimus Fr (from its mild taste mitissimus, very mild) a h c
 - P convex to depressed, at first papillate, even, bright goldentawny or bright orange, zoneless or faintly zoned 57 stuffed to hollow, even, smooth, colour as P G thin, paler than P, often rufous-spotted Milk copious, white
 - Taste mild to somewhat bitterish or slightly acrid disagreeable. Woods, mixed, pine, hedge braks, etc., common \lambda ug -\lambda ov \quad 2 \times 2\frac{1}{2} \times \chi_0^2 \text{in} \text{Like a small 1295}
- 1299 L subdules Fr (from the somewhat sweet taste, dulcs, sweet) a b c
 - P convex to depressed, at first papillate, even, dry, rufescent or orange-sienna, usually zoneless St stuffed to hollow, equal, subpruinate, colour as P G crowded, colour as P, or paler Flesh rufescent Milk white
 - Taste mild or sweet, then slightly bitter acrid edour none or like cedar wood Woods, mixed, fir July-Nov 3 x 2 x ½ m Resembling 201 Form concavus Fr P concave depressed colours of 1284 Form sphasnets Fr Marg of P reflexed, crenate, shining as if varnished, red-bay
- 1300 L camphoratus Fr (from the strong odour, sometimes of camphor) a b c
 - P convex to depressed, dry, brownish-red to sienna-orange, paler when young, somewhat zoned or zoneless St stuffed, equal, colour as P, paler above G yellow-reddish, paler than P, or salmon Flesh somewhat ochre or sienna Mulk watery, white
 - Taste mild, odour sometimes of melilot, permanent in dried examples Woods, chiefly pine, frequent Aug-Nov 2½×2½×½ in Resembling 194 Var Terret Cooke P½ in in dam corrugate, depressed, bay brown St colour as P clad with orange down
- 1301 L cimicarius Mass (from the odour, amex, a bug) a
 - P convex to subinfundibuliform, deep sienna, shaded deep umber St stuffed to hollow, lighter than P, paler above G dusky ochre, sienna or rufous Flesh grey to yellowish Milk watery, white
 - Taste somewhat acrid, odour when fresh, strong, heavy, oily, bug like, fugitive Woods, on the ground Autumn 2½ x 1½ x ½ in

- 1802 L subumbonatus Lindgr (from the somewhat umbonate pileus) a b
 - P convex to depressed, acutely papillate, rugose, punctate, dark cinnamon, zoneless St stuffed, equal or attenuate downwards, rufescent, crimson-umber below G adnate, flesh-colour or reddish First pale brown Milk watery, white
 - Taste mild, odour none when fresh, fetid in drying Woods, on the ground Sept $1\frac{3}{8} \times 1 \times \frac{3}{15}$ in
- 1303 L obnubilis Fr (from the clouded pileus, obnubilo, to overcloud) a b
 - P convex to depressed, at first papillate, brown-fuliginous or umber, zoneless marg somewhat striate St stuffed to hollow, equal, paler than P G somewhat crowded, yellowish Milk white
 - Taste mild, somewhat sweet Woods, damp places under alders, pastures \sim pt -Nov $2\frac{1}{8} \times 1\frac{1}{6} \times \frac{1}{8}$ in \sim Nar conatus Mass P coarsely and regularly sulcate Usurilly larger than type -Fir woods
- 1304 L minimus W G Sm (from its very small size, minimus, very small) a b c Pallid clay-colour
 - P pulvinate, obtuse, or subumbonate St usually excentric G furcate, moderately distant, slightly darker than P Milk white

Taste mild Woods, pastures Oct $\frac{5}{16} \times \frac{3}{16} \times \frac{1}{16}$ in

PLELROPODÆ

- 1805 L obliquus Fr (from the oblique stem) a White, changing to sellowish
 - P plano-depressed, lobate, silky, zoned grey St stuffed to hollow G crowded, white Milk white
 - Odour strong Trunks, beech, burnt stumps, banks Oct $2 \frac{1}{2} \times 1 \times \frac{1}{4}$ in Pileus sometimes 6 in or more in diam

XLIX RUSSULA Fr

(From the frequently reddish colour of the pileus, russulus, reddish)

Veil obsolete Hymenephore confluent and homogeneous with the stem Pileus fleshy, rigid, regular, at length depressed Stem central, stout, rigid, without cartilaginous bark, shining, examulate Gills adnate, rigid, fragile, often equal in length or furcate, edge thin, acute, sometimes exuding watery drops, especially in rainy weather, but not milky as in Lactarius, trana, vesicular Spores minutely verruculose or echinulate, white or pale yellowish (Fig 63)

Terrestrial fleshy rigid and brittle putrescent fungi appearing in late summer and autumn A few species are reputed edible, but most are novious, and there is some danger of confusing the esculent with the poisonous Odour none or unpleasant

Russula agrees with Lactarius in size and some other characters, but differs in the absence of milk

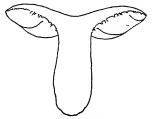


Fig 63 —Section of Russula lepida Fr One half natural size

The sclerotia and perfect plants of 248 sometimes grow from the gills of 1306 and 1307

Sphæronema vitreum frequently grows on species of Russula and Lactarius Species 1306—1367

- a Compactae Pileus fleshy, margin bent inwards, without striæ, without a distinct viscid pellicle, colour only changing with age and the state of the atmosphere Stem solid, fleshy Flesh compact, firm Gulls unequal 1306—1318
- b Furcata Pulcus compact, firm, covered with a thin closely adnate pellicle, which at length disappears, margin abruptly thin, at first inflexed, acute, even Stem at first compact, then spongy-soft within Gills somewhat forked, with a few shorter ones intermixed, commonly attenuate at both ends, thin, and normally narrow 1314—1324
- c Rigidæ Pileus without a viscid pellicle, drv, ngid, the cuticle breaking up into flocci or granules, margin straight, never involute or strate. Stem solid, at first haid, then softer or spongy. Pilesh thick, compact, firm, ending short of the margin of the pileus. Gills, a few dimidiate, others divided, rigid, dilated in front, running out with a broad, rounded front, whence the margin of the pileus becomes obtus. Handsome, somewhat rare. 1325—1334.
- d Heterophyllæ Pıleus fleshy, firm, with a thin, at first inflexed margin, then, except 1340, expanded and striate, covered with a thin adnate pellicle Stem solid, stout, spongy within, sometimes becoming hollow Gills consisting of many shorter, mixed with longer ones, others furcate
- e Fragiles Pileus more or less fleshy, covered with a pellicle which is always continuous, and in wet weather viscid and

somewhat separable, margin membranous, at first convergent and not involute, in full grown plants commonly sulcate and tubercular, not striate in 1348, 1356 and 1363 Stem spongy, at length wholly soft and hollow Gills almost all equal, simple, broadening in front, free Flesh commonly floccose, lax, friable Several doubtful forms occur, 1357 is specially variable in colour

Gills and spores white 1347—1355
Gills and spores white, then bright lemon-yellow 1356—1361
Gills and spores ochreous 1362—1369

a Compacta

- 1806 R nigrieans Fr (from its changing to jet-black in decay, nigricans, becoming black) a b c
 - P convex, depressed, stréaky umber-tan, sometimes oliveshaded mid almost black St attenuate downwards, siennatan, steel-greyish or faint purplish G rounded-adnexed, very thick, distant, pule yellowish Illish white, then reddish or pale purplish, at length black
 - Odour none Woods mixed, etc. common June-\ov $5\frac{1}{2} \times 2\frac{1}{2} \times 2$ in Becomm, wholly black and in this character analogous with 1221 1389 grows on decaying examples of this species.
- 1307 R adusta Fr (from its scorched appearance, adustus, scorched) a b ε
 - P convex to depressed or subinfundibuliform, smooth, whitish to pallid yellowish, at length clouded olive-sepia Sr equal, coloui as young P G adnate to decurrent, thin, crowded, white then dull Flesh unchangeable or becoming grey or pale sooty
 - Taste mild to acrid Woods, frequent to rare, local Aug-Oct 3½ × 2½ × 1½ in Not becoming wholly black 1390 grows upon this species and on 1341 Var caruliscens: Fr becomes blue when broken or cut
- 1308 R albonigra Fr (from the colours, albus, white, niger, black)

 a b Very rigid
 - P convex to infundibuliform, viscid, whitish, marg smoky St dusky, or white above, pale grey-ochreous towards base, spotted sooty G decurrent, crowded, thick, unequal, connected by veins, dimidiate, dusky whitish or yellowish Fless white, then black or sooty, not red
 - Taste somewhat acrid and unpleasant to mild, odour none Grassy places under trees Au₄ $3\frac{1}{8} \times 1\frac{3}{8} \times 1$ in
- 1309 R densifolia Cooke (from the crowded gills, as compared with 1306, densus, thick, folium, a leaf) a b
 - P convex to depressed, smooth, whitish, becoming streaky-fuliginous, grey or brownish, mid black St smooth, whitish to grey, then blackish G adnato-decurrent, unequal, thin,

white to rosy, red when bruised Flesh white, reddish when bruised, becoming black

Taste mild to slowly acrid Woods, under trees Aug -Sept 48 x 21 x 7 in

- 1310 R semierema Fr (from the white stem becoming cinereous and black when broken, semi, half, cremo, to burn) a White or faintly yellowish
 - P convex to depressed, even St equal or slightly attenuate upwards G decurrent, crowded, thin Flesh in P white
 - Taste mild odour none Woods, mixed, amongst leaves Aug –Sept $4\frac{1}{2} \times 2\frac{4}{3} \times \frac{7}{3}$ in
- 1311 R delica Fr (from its resembling a milkless 1272 in appearance, delicus, weaned) a b c White or whitish
 - P convex to depressed, even, smooth St even, smooth G decurrent, thin, distant, unequal, exiding small watery drops in wet weather

Woods, mixed, usually pine , uncommon Sept-Oct $5 \times 2 \times 18$ in

- 1311a R chloroides Bres (from the greenish-yellow colour of the gills, Gr chloros, greenish-yellow, cidos, appearance) a b c
 - P fleshy, plane to infundibuliform, marg incurved, pubescent, whitish, whitish-buff or livid St solid, equal or attenuate downwards, thinly pubescent, whitish G decurrent, somewhat crowded, furcate, veined, verdigris-white, greenish white, or turquoise-white, shaded emerald-green-white Fhish thick, whitish to snow-white

Acrid Woods, pine Aug-Oct $4 \times 2\frac{1}{2} \times 1$ in

- 1812 R elephantina Fr (from Fries thinking, in error, that Bolton's obese Agericus Ucphantinus might be one form of this comparatively slender species) a b
 - P convexo-umbilicate, fuscous-tan, marg undulate, paler, dark wash-leather colour when dry St haid, even, smooth, paler than P G adnate or sinuato-adnate, then subdecurrent, arcuate, somewhat crowded to distant, thin, obtuse, divided behind, unequal in front, spotted pale yellowish when touched, dull pale salmon when dry
 - Odour none Woods Sept $3 \times 2^{\frac{1}{2}} \times 1$ in Habit of 1341, but inodorous A elephantinus Bolton (Hist Fung t 28) is undoubtedly 1306, as is shown by the remote gills and the change of colour to black
- 1313 R mustelina Fr (from the colour of the pileus, mustela, a weasel) a b
 - P convex to depressed, opaque yellow-ochre or sienna with yellow to full burnt sienna 57 white, whitish, or faintly shaded yellowish, brownish or salmon G adnexed, adnate or rounded, crowded, veined above, somewhat branched

Woods Oct 3 x 21 x 1 in

b Furcata

1314 R olivascens Fr (from the pileus, more or less olive) a b

P gibbous to slightly depressed, olive, ochreous-olive or olive-brownish, mid yellow to olive-brown St equal, white or shided pale yellowish or olive-tan G adnate, crowded, almost equal, colour as St

Taste mild becoming slightly acrid, gills acrid Woods, bushy shady places Aug $5 \times 2\frac{1}{5} \times 1$ in

1315 R furcata Fr (from the forked gills, furcatus, forked) a b c

P gibbous to depressed, even, smooth, not breaking into warts, aeruginous-greenish, umber greenish, olive-tan, dark indigo-olive, slate or dull reddish-purple, sometimes clouded dull rose St equal, white G adnato-decurient, rather thick, somewhat district to crowded, white Hish white, often pale rose under olive pellicle of pileus

1316 R sanguinea Fr (from the blood-coloured pileus, sanguis, blood) a b c

P convex to depressed, shining, even, mid thick, marg becoming pale, sometimes white-clouded St equal, slightly strate, white or reddish G decurrent, sometimes adnate, crowded and veined, white Flish white, carmine under pellicle of pileus

Poisonous Taste acrid, peppers Woods, chiefly fir, grassy places, uncommon Aug sept 4 × 2 ± × 1 in Must not be confounded with 1329 which differs in the solid firm flesh and the form of the gills

1317 R rosacea Fr (from the rose-coloured pileus) a b

P convex to flat, even, pellicle viscid and separable in wet weather, white, salmon, pale rose to red-rose and darker at the sometimes faintly-ochreous mid, sometimes white, red-spotted St even, smooth, white to reddish G adnate, thin, crowded to distant, white Plesh white, rose-colour under pellicle of P

Taste mild, becoming slowly acrid, gills acrid — Woods, mixed grassy places , frequent — Aug –Oct $3\frac{3}{8} \times 2\frac{1}{8} \times \frac{7}{8}$ in

1318 R maculata Quel (from the spotted pileus and stem, maculatus, spotted) a b

P hemispherical to depressed, viscid, reddish flesh-colour to pallid, then discoloured and spotted purple or brown, marg striate, often dark St reticulato-striate, white or rosy then spotted ochre, not becoming grey G adnate, pallid-sulphur to somewhat peach-colour

Taste somewhat acrid Sept 3\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} in

- 1319 R sardonia Fr (from the acrid taste like that of a certain plant, Herba Sardoa, Ranunculus sceleratus) a b c
 - P convex to plane or slightly depressed, viscid in wet weather. reddish-purple or pale lemon with mid orange-yellow, often partially white, marg sometimes striate and somewhat tuberculose St equal, even, white, yellowish or reddish G adnate, crowded, white, spotted yellowish from exuded drops in wet weather Flesh white

Woods, chiefly fir, larch, near paths, uncommon Sept -Nov 41×21×1 in

- 1320 R depallens Fr (from the pileus becoming pale, depalleo, to be pale) a b
 - P convex to plane or depressed, often undulate or irregular, reddish, red-crimson, fuscous, purplish-rose or dark purplecrimson, the hues becoming pale to yellowish or white, the slightly striate marg sometimes cobalt-purple St equal, white to pale greyish G adnexed, scarcely crowded, white to pale vellowish

Edible Taste mild to bitter or acrid odour none Woods, beech, pastures, etc , uncommon June-Oct 4 x 17 x 3 in

1321 R purpurea Gill (from the purple pileus) a b

P hemispherical to depressed, rugoso-plicate, deep purple, mid darker marg even, then faintly striate St striate, white, or white above, rosy in middle, yellowish below G rounded, white to yellowish Flesh yellowish, red beneath the pellicle

Taste mild Under larches, oak, amongst grass Aug -Oct 31×17× n

- 1322 R corulea Fr (from the partially azure blue colour, caruleus, azure) a b
 - P convex or umbonate to slightly depressed, shining, deep redpurple or bluish-purple, marg even, somewhat cobalt, sometimes with a white line round edge, mid bluish-purple or buff St white, sometimes rose at base G adnate white to vellowish Flesh white, deep purple under pellicle

Taste mild Woods, pine, etc., grassy places Aug -Oct 38×24×1 in

- 1323 R drimeia Cooke (from the pungent taste, Gr drimus, pungent) a b
 - P hemispherical to depressed, scarcely viscid, bright deep purple or deep brownish-red-purple, marg even SY equal, tinged with purple G adnexed, pale sulphur to pale vellow

Intensely acrid Under larches Sept -Nov $3\frac{7}{8} \times 2\frac{5}{8} \times \frac{3}{4}$ in Colour and habit of 1345, differing in yellow gills and intense acridity

1324 R virginea Cooke & Mass (from its wholly white colour) a b P convex to depressed, smooth, even, viscid when moist, lustrous when dry, marg even St solid, slightly attenuate upwards, finely rugulose G decurrent, crowded, furcate, narrow

Taste mild Terrestrial Under trees, beech Oct $2 \times 2\frac{1}{4} \times \frac{1}{2}$ in Must not be confounded with other Russula bleached white with age

c Rigidæ

- 1325 R lactea Fr (from its milk-white colour, lac, milk) a b
 - P convex, sometimes faintly spotted cream-buff, mid biscuit-buff SI nearly equal, even, white, sometimes rose at base G free to adnate, thick, distant, furcate at base and apex, ivory
 - Said to be edible, but suspicious Taste mild odour of meal Woods, mixed, fir, uncommon Aug.—Oct $3\frac{1}{4} \times 2\frac{1}{4} \times \frac{1}{4}$ in Var meanala Cooke P shaded with pink buff or dull purple rose, with lighter and a few pale sterna spots
- 1326 R virescens Fr (from the frequently green pileus, vireo, to be green) a b c
 - P pulvinate to depressed, innato-flocculose, without a pellicle, surface soon broken up into patches or warts, verdigns-green, varving olive, dull ochre with mid verdigns, reddish-purple and other shades St somewhat rivulose, often clouded pale verdigns G free, white to biscuit Flesh white, verdigns under pellicle
- 1827 R cutefracta Cooke (from the broken cuticle), cutefractus, with the skin broken) a b
 - P pulvinate to depressed, even, cuticle cracking as in 1826, surface green, purple, bluish-purple, dull red, claret-red, etc., purple beneath cuticle. St equal, smooth, white, often clouded rose-purplish G adnexed or nearly free, somewhat crowded, white or pale yellowish
 - Taste mild Woods Scpt $3\frac{1}{4} \times 1\frac{5}{4} \times \frac{3}{4}$ in Probably a form of 1326, intermediate forms occur
- 1328 R lepida Fr (from its appearance, lepidus, elegant) a b c
 - P convex to slightly depressed, often rimoso-squamulose, reddish-rose with deep red-rose mid or sienna-ochreous with deep red mid, which at length becomes whitish St even, equal, white to rose G adnato-rounded, somewhat thick, somewhat crowded, white or pale yellowish, often rose at edge
 - Edible I aste mild Woods, mixed, amongst grass, frequent Aug -Oct 4½ × 2½ × 1 in Becomes green in cooking
- 1329 R rubra Fr (from the red pileus ruber, red) a b c
 - P hemispherical to plane or slightly depressed, dry, becoming lustrous, often rivuloso-rimose when old, intense crimson, mid almost black or deep purple, becoming pale. St even, equal, or slightly attenuate upwards, white, sometimes clouded rose or purplish G adnate, somewhat crowded, whitish to yellowish, often red at edge. Flash reddish under cuticle
 - Poisonous Flesh mild, gills very acrid Woods, mixed, grassy places, frequent Aug -Nov 4½×4½×1 in Must not be confounded with 1316

- 1330 R Linnæi Fr (in honour of Linnæus) a
 - P convex to plano-depressed, even, smooth, dry, dark purple or blood-red to hight rose St sometimes hollow, subventricose, deep blood-red to rose G adnato-decurrent, rather thick, not crowded, white to pale yellowish

Taste mild, sweet Woods Oct 5 x 3\frac{3}{2} x 1\frac{1}{2} in Sometimes white

- 1831 R xerampelina Fr (from the colour of the pileus, like dying vine-leaves, Gr xerampelinai, of the colour of dry vine-leaves) a b c
 - P convex to depressed, dry, even, at length finely granulate, rosy-purplish or dark rosy-red, clouded buff, mid becoming yellowish-white St sometimes hollow, equal or slightly attenuate upwards, white or reddish G adneved, somewhat crowded, whitish to yellowish Flesh whitish

Taste mild, odour strong of crab Woods, fir, grassy places July-Oct 4% × 3½ × ½ in

- 1332 R olivacea Fr (from the colour of the pilcus, at length olive) $a\ b$
 - P hemispherical to slightly depressed, slightly silky-squamulose, dull purple to olivaceous or fuscous-olivaceous, not lustrous St equal or ventricose, pallid, rose-colour or clouded pale purple or orange-crimson, crimson and ochre at base G adnexed, yellow

Edible Taste mild Woods, pine, grassy places Aug 4 x 3 x 7 in

- 1838 R serotina Quel (from its sometimes late appearance, serotinus, backward) a b
 - P hemispherical to flat, pruinose, sooty-purplish or olive, or clouded-slate and dull olive, marg hlac or purplish-reddish St equal or attenuate downwards, wrinkled, mealy, white G adnexed, crowded, yellowish-white

Taste acrid Under beeches Aug - Sept $1\frac{1}{4} \times 1 \times \frac{3}{16}$ in

1884 R Duportn Phill (after the Rev Canon J M Du Port) a b
P convex to depressed, smooth, mid rufous, dull purplish,
brown, or flesh red, marg becoming indistinctly striate and
tuberculate, dull bluish or greenish St minutely striate,
glabrous, white or dull sienna-white G rounded, broad,
distant, white or faintly yellowish Flesh reddish-brown
when cut

Taste mild, pleasant, odour of crab Woods Sept 28 x 21 x 8 in

d Heterophyllæ

1835 R vesca Fr (from its edible qualities, viscus, eatable) a b c P convex to depressed, viscid, slightly wrinkled, rose-purple, red-flesh-colour, liver, tan-buff umber or ochre, or clouded purple and buff, mid usually darker, not becoming pale St wrinkled, equal or attenuate downwards, white, sometimes shaded pale rose, purple or ochre G adnate, crowded, white or yellowish

Edible laste mild, pleasant to unpleasant, odour of hog s lard or some what like crab, becoming like lobster or crab when cooked Woods, mixed, frequent $\lambda_{\rm Ug}$ –0.ct $4\frac{3}{8}\times\frac{1}{2}\times\frac{1}{8}$ in

1336 R lilacea Quel (from its lilac colours) a

P convex to depressed, viscid, violet, purple or rosy-purple, marg at length almost white St attenuate downwards, prumose above, white, sometimes rosy at base G adnate, distant, white Hest violet under pellicle

Taste mild Woods, moist places Aug 31 x 28 x 1 in

1337 R azurea Bres (from the azure-blue pileus) a b

P convex to depressed, minutely granulose, dry, bright blue, deep purple, dark indigo or greenish slate, mid sometimes ochre or brown, marg scarcely striate, sometimes lilac, becoming dilute cobalt and indigo St rugulose, equal, ventricose or subclavate, white or clouded pale rose G adnexed, crowded, white

Edible Taste mild, sometimes bitter Woods, fir, grassy places under trees Aug –Sept $3\frac{2}{3} \times 1\frac{4}{3} \times \frac{3}{4}$ in

1338 R eyanoxantha Fr (from the colours, Gr *kuanos*, blue, *xanthos*, yellow) *a b*

P hemispherical to depressed, viscid, lilac, purplish, olivecousgreen, green-shite, purplish-rufous, pale rose, purplish-slate or buff, mid becoming pale or yellowish St equal, smooth, shining, hollow when old, white G rounded, somewhat crowded, white Flesh white, reddish or purplish beneath pellicle

Said to be edible Taste mild, pleasant Moist places in woods, mixed common June-Oct $3_5 \times 2\frac{1}{2} \times \frac{4}{3}$ in

1338a R mitis W G Sm (from the mild taste, mitis, mild) b

P convex, then plane-expanded and depressed, viscid, then smooth, with a separable pellicle, striate and in old examples, tuberculate, mid pale yellowish, surrounded by purplishmouse-colour or pale rose and purple, marg yellowish or biscuit St stuffed, then hollow, slightly attenuate downwards, rugulose, white G adnate, branched, veined above, white, then faint straw colour Flesh white, tinging to rusty, pale ochre beneath pellicle

Faste mild Woods Aug 3 x 2 x 4 in

- 1339 R heterophylla Fr (from the gills, of different lengths, Gr heteros, one of two, phullon, a leaf) $a\ b\ c$
 - P hemispherical to depressed, even, shining, usually apple-green or indigo apple-green, mid darker or pale apple-green, clouded brownish or sienna, never reddish or purple

- St equal, even, white G thin, attenuate behind and reaching the stem, crowded, white
- Edible Taste mild, sweet, nutty, odour of hog's lard, but like lobster or crab when cooked Woods, etc , common July-Oct $4\times2_2^1\times1$ in Var galockroa Fr P white to whitish apple green
- 1340 R consobrina Fr (related to 1341, consobrinus, a cousin) a b P campanulate to depressed, viscid, dark cinereous to fuscous-olivaceous, tan-umber, tan-sepia, sooty-sepia or yellowish-umber, mid darker, marg even St even, smooth, shining-white, then cinereous G adnate, crowded, shining-white Flesh white, ashy under pellicle
 - Taste of flesh acrid, gills intensely acrid, not fetid as in 1341 Mixed woods, pine, beech July-Oct $3\frac{3}{8} \times 1\frac{4}{8} \times \frac{8}{9}$ in Var sorona Fr, margin striate Var intermedia Cooke P becoming striate St usually attenuate downwards G dull white
- 1341 R feetens Fr (from the fetid odour) a b c
 - P bullate to expanded, sometimes depressed, viscid in wet weather, sienna- or brown-yellow, marg striato-ribbed, at length tuberculate St becoming hollow, whitish or yellowish G adnexed, crowded, exuding watery drops, whitish
 - Said to be poisonous Taste acrid, rarely mild, odour fetid burnt, empyreumatic, very strong in mature examples in wet weather, sometimes slight Woods, very common July-Oct $4\frac{1}{4} \times 3\frac{1}{4} \times 1\frac{1}{8}$ in 1390 grows on this species
- 1842 R subfætens W G Sm (from the somewhat fetid odour) a b P convex to plane and subdepressed, somewhat viscid, sienna-yellowish or buff, paler at the striato-tuberculate marg St equal, even, whitish or faintly buff G thick, branched, distant, yellowish-white
 - Taste slightly acrid and bitter, odour somewhat disagreeable Grassy places Aug-Sept 3½ × 2 × ¾ in Whole plant tough, elastic
- 1343 R fellea Fr (from the bitter-acrid taste, f.lleus, full of gall) a b c P hemispherical to convex, smooth, lustrous, straw-colour to ochre or buff, mid brownish St equal, even, white to straw or pale yellowish, or shaded pale buff G adnate, more or less crowded, thin, exuding drops in wet weather, pale yellowish or faint buff
 - Poisonous Taste intensely bitter and acrid , odour none Woods, beech, open places , common Au₅ -Nov $4\frac{1}{4} \times 2\frac{1}{4} \times \frac{3}{4}$ in
- 1344 R elegans Bres (elegans, pretty) a b
 - P hemispherical to depressed, glutinous and densely granulate, bright ros; flesh-colour, soon ochreous at marg or pale crimson, mid purple-crimson or rose-buff, spotted crimson or purplish-crimson, marg tuberculose St equal, becoming hollow, subrugulose, white, ochie-buff below G adnexed or rounded adnate, crowded, rarely furcate, whitsh, ochre above, becoming orange-ochre with age Flesh very firm, white, ochre-buff with age

Woods, moist Sept 38 × 2 × 2 in

1345 R Queletii Fr ex Quél (after Dr Lucien Quelet) a b c

P convex to infundibuliform, even, viscid, intense blackishcrimson or purple-crimson, sometimes paler at marg or wholly intense purple, blue-purple or slate St equal or attenuate downwards, mealy, dark or pale-purple to faint rose, sometimes paler above G adneved, exuding drops, white to biscuit, at length bluish-ashy or cinereous spotted Flish white, colour as P under pellicle

Taste acrid Woods, fir, common Aug-Nov 23 x 21 x 1 in

1346 R expallens Gill (from its losing colour *expallens*, becoming pale) a b

P convex to depressed, viscid, deep bright crimson-purple or deep claret-purple, mid daiker, sometimes almost black, losing colour and becoming livid-creim, with mid dull pale purplish St equal, meals, rose-purple, paler or somewhat buff at base G adnexed, pallid vellowish or somewhat lemon Flish purple, pale vellowish or white

Faste intensely acrid Under trees Sept -Oct 34 × 34 × 4 in

t Fragilis

1847 R emetica Fr (from its acting as an emetic) a b

P convex to plane or slightly depressed, lustrous blood-red to rose, sometimes bleaching to almost white or purplish, tawny when old St equal, even, longitudinally rugulose, white or reddish G adness-free, somewhat distant Flish white, rose-colour under the separable pullicle

Poisonous Taste very acrid Woods and open damp places common July-Dec 4½ x 3½ x ½ in Var Clu n Fr Flesh white, turning yellowish Var fallar Fr 1- 2 form of 1354

1347a R luteotaeta Rea (from the change of colour to light yellow when bruised, luteus, yellow, tactus, a touch) b

P hemispherical, then plane and subumbonate, ruguloso-rivulose, carmine-scarlet, becoming whitish at the striate marg St equal, or slightly attenuate downwards, rugulose, white, shaded pale lilac, yellowish when bruised G furcate, adnate, very light straw-colour, yellow when bruised Flish white, colour as P under pellicle, tinging yellowish when bruised or slug-eaten

Taste of flesh acrid, of gills very acrid $\;$ On $\;$ he ground, woody places Aug $\;$ $I\frac{\pi}{8}\times I\frac{\pi}{8}\times \frac{\pi}{2}$ in

1348 R fingibilis Britz (from its seeming distinctness, fingibilis imaginary) a

P convex to depressed, viscid, yellow, with orange or brownish mid, marg not striate St equal, white or faintly yellowish G somewhat crowded, thin Flish white

Taste mild , odour none — Amongst grass under trees — July — $2\frac{1}{8} \times 1\frac{7}{8} \times \frac{1}{2}$ in

- **1349 R peetinata** Fr (from the sulcate margin of the pileus, like the teeth of a comb, *peeten*, a comb) *a c*
 - P convex to flat or slightly depressed, rigid, viscid, yellowishumber or dull ochre, with a dark or purplish mid, becoming pale, marg tuberculoso-sulcate St equal, spongy-stuffed, rigid, slightly striate, white or faintly greyish G attenuatofree, subcrowded
 - Suspected poisonous Taste somewhat acrid , odour weak, nauseous, some what like 1341 Woods, mixed Aug 3 × 15 × 5 m
- 1350 P ochroleuca Fr (from the usually yellowish-white pileus Gr ochros, pale yellow, leul os, white) a b c
 - P convex to slightly depressed, lustrous, deep or light yellow, becoming pale, never ieddish marg striate when old St equal, slightly reticulate-wrinkled white to lemon-white, becoming pale steel-grey G rounded, white or pale yellowish
 - Taste of flesh mild, gills acrid odous none, or pleasant Woods, chiefly fir, frequent July You $3_6 \times 2_2^4 \times \frac{7}{4}$ in Yar classifier a Cooke P deep chrome vellow G white becoming pule lemon then somewhat ochraceous
- **1851 R granulosa** Cooke (from the at length, minutely granular pileus and stem) a b
 - P convex to subinfundibuliform, pale or ochreous yellow mid darker marg paler St equal, white above, as P or somewhat sienna below G adnexed or adnate rarely furcate, somewhat crowded
 - Taste of flesh mild, çills acrid odour sour. Under trees. Aug –Sept $3^4_2 \times 2^4_2 \times 3^4_3$ in
- 1852 R seruginea Fr (from the verdigus-green pileus aruşmus, like verdigus) a b
 - P convex to slightly depressed, even, somewhat dry sometimes of one or umber-yellowish blotted with olive mid darker 5% equal, even, smooth, white G attenuate behind and slightly adneved, somewhat distant
 - Taste mild, pleasant Woods Aug 41 × 15 × 15 in
- 1353 R citrina Gill (from the citron-coloured pileus) a b
 - P convex to depressed, smooth, sulphur lemon with mid brassyyellow, sometimes faintly greenish with mid becoming pale ochreous St equal, striate, white to faintest lemon G attenuate and furcate behind, adnexed Fhish white, brassyyellow under pellicle
 - Taste sweet to acrid , odour almost obsolcte $\,$ Woods, mixed $\,$ Aug –Oct $\,3\frac{1}{4}\times1\frac{3}{4}\times\frac{5}{8}$ in
- 1354 R fragilis Fr (from the brittle substance) a b c
 - P convex and sometimes umbonate to depressed, crimson, purple, rose-flesh-colour to buff or white, often clouded, changing colour, mid darker or fuscous, not red under the

- pellicle St equal, slightly striate, white G adnexed, thin, crowded, ventricose
- Taste very acrid Most places in woods, common Aug -0ct $z_2^2 \times t_2^2 \times t_3^2$ in $\sqrt{\frac{1}{4} \ln x}$ Var notacez Cooke P white $\sqrt{\frac{1}{4} \ln x}$ Cooke P violet $\sqrt{\frac{1}{4} \ln x}$ Vlass P durty reddish, or variously coloured as mid pale greysh slate and marg rose, or mid brown and marg rose and white Included under 1347 by Fries
- 1355 R punetata Gill (from the dotted pileus, punetatus, dotted) a P convex to depressed, 1059 or purple, punetate with dark rufous pointed tubercles, becoming pale, mid darker, marg sometimes cream St attenuate downwards colour as P, base whitish, non-punetate G adnexed, white to yellowish, edge often reddish
 - Taste mild, sweet Woods, grassv places July 2½ x 1½ x ¾ in Var leucofus Cooke St white
- 1356 R veternosa Fr (from its uncertain affinities veternosus, languid) a b
 - P hemispherical to slightly depressed, deep to pale rose or purplish mid usually vellowish or whitish, marg plane St equal, even, white G adhexed to adhate, crowded, white then striw-colour
 - Suspected poisonous Taste acrid Woods, amongst grass under trees July-Sept $2\frac{4}{7} \times 2\frac{4}{7} \times 2\frac{1}{7} \times \frac{1}{7}$ in
- 1357 R integra Fr (from its frequently perfect form, integer, entire) a b c
 - P convex to depressed, viscid, red, purplish-crimson or rose with marg buff, or tan, clouded crimson, or dull yellowish, clouded pale crimson-brown, or pale yellow with ochre mid and purple marg, or umber, slate-purple or amost black marg sulcate and tubercular St somewhate ventricose, white, sometimes faintly rose or pale yellowish G adnevo-free, very broad, subdistant, white, sometimes rose or pale purple with ochreous base Pileus sometimes bleaching, almost white
- 1358 R decolorans Fr (from the changeable colour of the pileus, decolorans, changing colour) a b
 - P spherical to slightly depressed, orange-red becoming light yellow, sometimes olive ochre or variegated pale yellow, orange or vermilion St rugoso-striace, white, shaded steelgrey or faintest yellow-olive G rounded-free, white then yellowish
 - Taste mild Woods, pine, mixed, uncommon Aug-Sept $3\frac{1}{2} \times 3\frac{3}{4} \times \frac{3}{4}$ in
- 1359 R aurata Fr (from the golden-yellow pileus, aurum, gold) a b c
 - P hemispherical to plane, mid scarlet, orange or red marg lemon sometimes mid sulphur, marg vermilion St

- obsoletely striate, white to lemon G rounded-free, whitish to light yellow, bright lemon at edge Flesh white, as P under pellicle
- Sand to be edible, but suspicious Taste mild to slightly acrid , odour pleasant, sweet Woods, oak , uncommon | Iune–Oct | $4\frac{9}{4} \times 2\frac{1}{8} \times \frac{7}{8}$ in
- 1360 R Barlæ Quel (after J B Barla) a b

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- P convex to depressed, even, peach-colour, yellow, tinged with orange-red or clouded ochre, dull crimson, reddish or copper-colour, mid darker street equal, silky-pruinose, white to faintly yellowish or reddish G white, then pallid-ochreous, sometimes orange
- Taste mild, sweet , odour of crab, or melilot Amongst grass under trees July-Oct $3\frac{2}{8} \times 1\frac{7}{8} \times \frac{7}{8}$ in
- 1361 R nitida Fr (from the shining pileus mitidus, shining) a b c P convex to slightly depressed, bay-brown-purplish, purplish-crimson, crimson, or purple-white mid darker, marg tuberculose St equal, even, white or faintly clouded rose G adnexed, crowded, bright lemon
 - Suspected poisonous Taste mild to nauseous or somewhat fetid, odour strong, unpleasant, sometimes obsolete Woods, fir, uncommon July-Sept 1 x $1\frac{1}{2}$ x $\frac{3}{8}$ in Var currea W G Sm, Agaicus curreu Kromb P copper colour Var pulchrali W G Sm, Russula pulchrali Britz P spotted red or purple at mid, ochreous at marg, or the reverse
- 1362 R alutacea Fr (from the colour of the gills aluta, tanned leather) a b c
 - P hemispherical to depressed, even, crimson, red, rose, purple, black-purple, black, olive, greenish, rarely æruginous, becoming pale, mid often darker marg tubercular St equal or slightly clavate, white, usually clouded red, rose or purplish, sometimes deep crimson G adneved or adnate, light yellow to bright deep ochreous Flish white to pale yellowish
 - Edible Taste mild, pleasant, acrid when old Woods, beech, mixed, common July-Oct $5\frac{1}{4} \times 3 \times 1\frac{1}{8}$ in
- 1363 R armeniaca Cooke (from the colour of the pileus and the odour, armeniacus, of the colour of the apricot) a b Very fragile
 - P convex to depressed, smooth, even, orange, ochre, shading into sienna, sometimes lemon-colour St equal or slightly attenuate upwards, smooth, white G adnato-rounded, somewhat distant, yellowish to ochre and egg-yellow
 - Taste mild, odour sweet of apricot Woods, amongst grass under trees Aug $2\frac{1}{4} \times 2\frac{1}{4} \times \frac{\pi}{16}$ in
- 1864 R puellaris Fr (from its small size and grace, puellaris, girlish) a b
 - P hemispherical, obtuse to depressed, purplish, purple, rose or pink-orange, mid darker, sometimes almost black, becoming pale, not shining, marg tuberculate St equal, fragile, white,

becoming yellowish or clouded pale rose G adnate or adnexed, thin, crowded, white, then pallid yellow

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Taste mild Woods, birch, pine, waysides, amongst Sphagnum Aug-Oct 13 × 28 × 38 in Sometimes turning pale, foxy and yellow where brused Var intensor Cooke P deep purple, mid nearly black Var roseipes Cooke P rose, rosy orange, becoming blanched St white, partially rosy, not changing to sienna where brused All the forms grow in company.

1365 R ochracea Fr (from the ochreous pileus) a

P hemispherical to infundibuliform, shining, marg sulcate St equal, striate, yellow, pale yellowish or white G rounded-adneved, scarcely crowded, furcate at base, ochreous Flesh white to ochreous

Taste mild Woods, fir, mixed, grassy places Aug 31 × 11 × 11 in

1366 R lutea Fr (from the yellow pileus, luteus, yellow) a c

P convex to plano-depressed, becoming pale, sometimes white, varying orange with scarlet mid marg striate St equal, even, white, shaded greyish, never reddish G adnexo-free, crowded, all equal, egg-jellow

Taste mild odour pleasant of apricot, or almost obsolete Woods, uncommon July-Oct 2\$\frac{1}{2} \times 2 \times \frac{3}{3} \times 1n

1367 R nauseosa Fr (from the nauseous taste and odour) a b c

P hemispherical to depressed, viscid, bright yellow or purplish to livid, becoming pale or whitish, never red or reddish, with mid deep ochre, varying orange or yellow with mid darker, marg tuberculoso-strate St slightly strate, equal or subclavate, whitish G adnexo-free, ventricose, white or yellowish

Taste acrid, sometimes mild , odour fetid to feeble, strong, sour, like decaying oat cake Woods, chiefly pine Sept -Oct $2\frac{1}{4} \times 2\frac{1}{8} \times \frac{1}{8}$ in Often resembling 1341 Var flavida Cooke P clear primrose vellow

1368 R vitellina F1 (from its egg-yellow colour, vitellus, yolk of egg) a c

P convex to plane, light yellow to pallid marg striato-tuberculate St equal, white G adnevo-free, equal, distant, somewhat thick, connected by veins, saftron

Taste mild , odour strong Woods, fir, mixed , uncommon Aug –Sept ${}^{1}_{4} \times 1 \times \frac{1}{4}$ in There is a large form with P 2–3 in in diam

1369 R chamæleontina F1 (from its changing colour, chameleonlike) a b

P convex to slightly depressed, flesh-colour, changing to yellow at mid, then wholly yellow sometimes purple, olive with slate mid, scarlet, crimson, pale rose or vermilion with yellow mid St equal, slightly strate, white G adnexed, thin, crowded, equal, somewhat forked, yellow

Taste mild, sweet, odour none Woods, pine, beech, downs, rare Sept-Oct $\mathbf{1}_{\frac{1}{2}} \times \mathbf{1}_{\frac{1}{4}} \times \mathbf{1}_{\frac{1}{4}}$ in

L CANTHARELLUS Juss

(From the cup-shaped pileus of some of the species, Gr kantharos, a cup)

Vil obsolete Hymenophore continuous and homogeneous with the stem, when latter is present Pileus fleshy to membranous Stem



Fig. 64 - 4 section of Cantharillus cibarius Fr. One half t itural size

B. C. muscig nut Fr. entire and in section \attraction \attractio

central, excentric or obsolete, exannulate, without cartilaginous bark *Gills* decurrent, thick, fleshy-waxy fold-like, somewhat branched, edge obtuse, trama floccose *Spores* white (Fig. 64)

The species grow on the ground and on mosses, rarely on wood Some are edible, others are said to be poisonous Species 1370—1388

Aspergillus sometimes grows on Cantharilli Species 1370—1388

a Mesopodæ Stem central

c Resupenatæ Resupenate

Pileus entire, solid Stem fleshy 1370—1376
Pileus somewhat membranous Stem tubular, shining

1377—1384

b Pleuropodæ Dimidiate Stem lateral

1385, 1386 1387, 1388

a Misebodæ

1370 C cibarius Fr (from its use as food, cibaria) a b c Egg-

P convex to depressed, turbinate, smooth, marg often repand and irregular St solid, attenuate downwards G shallow, narrow, much swollen

In troops, clusters or rings Edible Taste pleasant, odour when mature strong of apricots or ripe greengages, sometimes heavy or earthy and somewhat pungent Woods, chiefly beech, oak, chestnut, common July-Dec $4 \times 1\S \times \S$ in Sold in Italian markets under the name of Gallinaccio, at Cordova under the name of Encina in Fiench markets in a dired state on strings V ar nuffpes Gill, red at base of stem There is a white and a vellowish white var

- 1371 C Friesii Quel (after Elias Fries) a b c
 - P convex to infundibuliform, flesh, villous, somewhat orange St solid attenuate downwards, yellowish-white or pale orange G narrow, yellow or orange
 - Woods, on elder Aug –Nov 1½ × ½ × ½ in Intermediate between 1370 and 1372
- 1372 C aurantiaeus Fr (from its golden yellow colour, aurantiaeus, orange-vellow) a b c
 - P plane to infundibuliform, somewhat thin, subtomentose marg undulate, at first involute, orange-ochreous, mid sienna St stuffed to hollow, attenuate downwards, ochreous or reddish, sienna or black at base G crowded, thin, deep orange or orange-vermilion
 - Gregarious Said to be poisonous Taste unpleasant pine, hearths, on elder, on gress roots Oct-Dec 3½ × 2 × ½ in Possible a Citicophe rather than a Cantravillus. There is a white and a yellowish white var with white gills. A mould, Dactylium dendroides, the coind al stage of Hypomyce rowllus, is common on the gills of this fungus.
- 1372a C hypnorum Brond (from its habitat, moss, Hypnum)
 - P campanulato-convex then expanded and slightly depressed, many mentioned, minutely downy, pale primrose-vellow to pale or the St slender, slightly flexuous, almost glabrous, yellow, sometimes darker than P near base G thin edge acute, somewhat crowded branched decurrent, yellow Flish thin, whitish
 - Cudworth, Yorks Sept 1905 14 x 1 in Allied to 1372 but differing in colour, P less tomentose and spores smaller
- 1373 C Brownii B & Br (after J Brown) a b Ochreous-white P convex, obtuse or umbonate, thin, obscurely silky St stuffed, equal, somewhat furfuraceous G subdecurrent, linear, narrow, subdistant, sometimes branched

Amongst grass Autumn $_{8} \times 1\frac{1}{2} \times \frac{1}{16}$ in

- 1374 C carbonarius Fr (from its habitat, burnt wood and earth, carbo, charcoal) a b ε
 - P convexo-umbilicate to infundibuliform, striato-squamulose, date brown to dark purple-slate and black. St solid, attenuate downwards, often deeply rooting, yellowish-white above, as P below G narrow, white
 - Often fusciculate Charcoal beds, burnt ground July-Dec $2\frac{3}{8} \times 1 \times \frac{1}{2}$ in , rooting stem $2\frac{1}{2}$ in Often grows in company with 183 and 277, to which smill examples of 1374 are not unlike
- 1375 C umbonatus Pers (from the sometimes umbonate pileus, a b c
 - P convex and umbonate to depressed, even, dry, floccoso-silky, cinereous-blackish, somewhat pale slate or umber-slate St

stuffed, equal or slightly attenuate upwards, cinereous G thin, crowded, white to faintly brownish

Gregarious Taste and odour almost obsolete Woods, amongst mosses, rare April-Oct 1½ × 3 × ½ in Sometimes becomes reddish when brused

1876 C albidus Fr (from the whitish colour, albus, white) a c Whitish to faintly yellowish

P subinfundibuliform, irregular, splitting, tough, somewhat faintly zoned St solid, equal or attenuate downwards, smooth G thin, subcrowded, branched

Taste and odour heavy, earthy Pastures, mossy places, amongst larch and fir Sept –Oct $2 \times \frac{7}{8} \times \frac{1}{8}$ in A form occurs with the gills distant and thick

1877 C leucophæus Nouel (from its white gills, Gr leukos, white, phaino, to appear) a c

phano, to appear) a ϵ P depressed to deeply infundibuliform, smooth, tough, umber St slightly attenuate upwards even, colour as P, darker at base G distant

On the ground Autumn 18 x 18 x 1 in

1378 C Houghtonii Phill ex Cooke (after the Rev William Houghton) a b

P umbilicato-depressed, smooth, dull white, somewhat fleshcolour, marg waved, iregular St attenuate downwards, delicately fibrillose, rooting, colour as P G narrow, scarcely forked, pallid flesh-colour to salmon

Single or subcespitose On the ground Autumn $2\frac{1}{2} \times 3 \times \frac{1}{4}$ in

1379 C tubæformis Fr (from the trumpet-shaped, maturc pileus, tuba, a trumpet, forma form) a b c

P umbilicato-convex to deeply infundibuliform, flocculose, umber or yellowish-umber, sometimes faintly olive-shaded, sometimes perforate to base of St, marg waved St compressed, lacunose, smooth, orange yellow, paler above and below G distant, much branched, vellow-fuliginous or yellowish-umber

Gregarious Woods, often on fallen branches, twigs, rotten wood, and on the ground , common Aug -Nov $4\frac{4}{3} \times 4\frac{1}{4} \times \frac{4}{3}$ in Intermediate forms occur between this and 1380 Var *Intercess* Fr SE pule yellowish

1380 C infundibuliformis Fr (from the shape, infundibulum, a funnel, forma, form) a b c

P convex, umbilicate to infundibuliform, sometimes pervious to base of St, floccoso-wrinkled, yellow-cinereous or fuliginous, paler when dry, sometimes pale purphish-lavender, mid deep sienna-umber, marg undulate St even, smooth, light or bright yellow, sometimes pale purphish-lavender above G light yellowish to cinereous

Gregarious, somewhat crespitose Suspected poisonous Woods, chips, rotten wood, on the ground, common July–Jan $_{2\frac{1}{5}} \times _{2\frac{3}{5}} \times _{3\frac{3}{5}}$ in Intermediate forms occur between this and 1379

- 1381 C cinereus Pers (from the cinereous gills) a b c
 - P infundibuliform, often pervious to base of St, villoso-squamulose, marg lobed, waved and very irregular, hoary-fuliginous or streaky umber St attenuate downwards, smooth, fuliginousblackish or gradually dark umber to base G somewhat pale lavender
 - Woods, beech, on the ground Sept-Nov 2 x 2 x 3 in Must not be confounded with 1782
- 1382 C cupulatus Fr (from the cup-shaped pileus, cupa, a cup) a b c P when young strongly umbonate, then plane to cup-shaped, with um sometimes at bottom of cup, smooth to flocculose, pallid fuscous, pale and slightly rufescent when dry, or pale umber or brownish-buff, marg striate St equal, tough, smooth, pale buff or paler thin P G very distant, much brunched, grey, lavender or yellowish-brownish
 - Waste places, on the ground, rare Oct g x $\frac{3}{4}$ x $\frac{1}{16}$ in Must not be confounded with 1448
- 1383 C Stevensonn B & Br (after the Rev John Stevenson) a c P convevo-umbilicate, smooth, buff-white St delicately pulverulent, white to buff-white G pallid, becoming fuscous in front

Rotten-stumps and wood amongst moss Mar - April 3 x 4 x 1/2 in

- 1384 C replexus Fr (from the margin of the pileus, bent back, repund) a b
 - P membranous, convex to depressed, subumbonate, fuscous to cinereous or umber-jellowish marg striate St smooth, equal or slightly thickened above, white above, layender below G adnate to decuirent, horry white cinereous or pale purple
 - On the ground, amongst grass, moss and leaves $Oct Nov = \frac{1}{8} \times 1\frac{1}{16}$ in With the habit of a *Myana* Nar deverue Fr P hood shaped

b Pleuropodæ

- 1385 C museigenus Fr (from the habitat, muscus, moss, gigno, to bear) a b c
 - P membranous, spathulate, smooth, undulate, fuscous, cinereous-whitish when diy, or umber-jellowish or buff St horizontal and continuous with P, colour as P, villous at base G distant, branched, colour as P
 - On larger mosses, Hypnum, Tortula, sometimes on the ground , uncommon June-Nov $\frac{3}{4} \times \frac{1}{3} \times \frac{1}{15}$ in
- 1386 C glaueus Fr (from the sea-green colour, graucus, sea-green)
 a b c Grey or indigo-whitish
 - P membranous, spathulate, silky, zoneless St pruinate G distant, dichotomous
 - On the ground, sandy slopes Autumn $\frac{1}{2} \times \frac{3}{16} \times \frac{1}{16}$ in

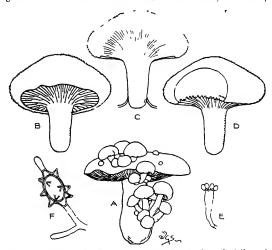
c Resupinatæ

- 1387 C retirugus Pers (from the reticulate gills, rete, a net, ruga, a wrinkle) a b c
 - P sessile, inferior, membranous, irregular, repando-lobed, cincreous-fuliginous, or pale fuliginous over biscuit G superior, radiating from a central or lateral point, whitish-fuliginous or paler than P
 - On sticks and mosses in bogs, H_1pnum uncommon April–May P $\frac{3}{4}$ in in diam. Sometimes wholly salmon or biscuit
- 1388 C lobatus Fr (from the lobed pileus) a b c Dark fuscous, pale when dry
 - P sessile, inferior, membranous, irregular G superior, indiating from a central or lateral point, somewhat distant, branched
 - On mosses in bogs, Hypnum curpidatum, H revolens, Sphagnum, mossy soil, uncommon Spring to winter P 11 in in diam

LI NYCTALIS Fr

(From the habit, growing in dark places, Gr nux, night)

Visit obsolete or indefinite Hymenophore continuous and homogeneous with the stem Pileus flesh Stem central, exampulate,



7 Fig 65 — A $_2$ ctalis a sterophora $F_{\rm F}$ A plants growing on Russula adusta. One half natural size B C, entire and in section D with slice removed from edge, showing transverse section of ven like gills $\times 2$ E, basidia and spores F coindium X 400

without cartilaginous bark Gills fleshy, thick, juicy, obtuse at the edge, distant, adnate Sports elliptical, subglobose, colourless Reproduction is also effected by conidia borne on the pileus (Fig 65)

Parasitic on the Agaricaca, gregarious and fasciculate

Species 1389, 1390

1389 N asterophora Fr (from the minute stellate conidia borne on the pileus, aster, a star, fero, to bear) a b c

P hemispherical, floccoso-pulverulent, white to fawn St solid, equal, whitish to brownish G very shallow, thick, grey-white Gregarious or subco-pitose Parasitic on 229, 1306, 1307 and a few other species of Agaricação frequent Iulv-Nov $\frac{3}{7} \times \frac{3}{8} \times \frac{3}{16}$ in In stellate considra on the pileus have been named H_2 form; considration H_2 is a starter from H_3 form; consideration H_3 form H_3

1390 N parasitica Fr (from its parasitic habit) a b c

P conico-campanulate to expanded, obtuse or umbonate, prumose, whitish fuscous to pale, or whitish-grey with mid, faint sienna M fistulose, slightly attenuate upwards, pubescent, white G somewhat broad, thick, distant, very pale rose-brown

Giggrious or cuspitose Parasitic on 1306–1307–1311 and 1341, common $\ln_{u_{\infty}} - \log v + \ln v + 1 \le k \le 1$ in Often wholly lavender steel colour. The pileus produces large elliptical smooth confidences.

LII MARASMIUS br

(From the habit, drying or shrivelling, not becoming putrid, Gr maraino, to wither or shrivel)

Veil obsolete except in one non-British species—M subannulatus and a slight indication in the young of 1404 Hymenophore con-

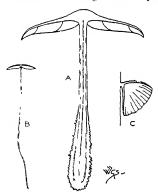


Fig 66 — a section of Marasmus peronatus Fr. One half natural size B section of Marasmus peronatus Fr. One half natural size B Section of Marasmus Propagation of Marasmus Pro

tinuous with but heterogeneous from the stem Pileus and, pliant, more or less thin Stem central, cartilaginous or horny, absent in 1481 Gills usually simple, pliant, somewhat distant, edge acute. entire Spores white (Fig 66)

The species are commonly small, thin and epiphytal, those which appear to grow on the ground are generally on putrid leaves or roots of grasses, many have a strong odour, sometimes fetid, or of garlic, never of meal Marasmius is closely allied to Collybia, but the true Marasmu shrivel in dry weather and revive in rain are edible, others are esteemed for flavouring, 1391 is dangerous

Species 1391—1431

- A Pileus fleshy-pliant, at length somewhat corraceous, sulcate or wrinkled, margin at first involute Stem somewhat cartilaginous
 - a Scroteæ Stem solid or stuffed, then hollow, internally fibrous, externally cartilaginous and covered with villous down which is easily removed Gills separating-free

Stem woolly or stugose at the base 1391-1393 Stem naked at the base, often composed of twisted fibres

b Terginæ Pileus thinner than a in section, hygrophanous, even or stricte Stem rooting, tubular, cartilaginous, not fibrous Gills separating-free

Stem woolly downwards, smooth upwards 1397-1400 1401-1405 Stem wholly prumato-velvety

c Calopodes Pileus convexo-involute, then plane or depressed Stem curt, not rooting, inserted, often with a basal floccose Gills adnate or subdecurrent

Stem smooth and shining upwards, base simple 1406-1410 Stem velvety or prumate, base somewhat tubercular

1411-1414

- B Pileus somewhat membranous, campanulate then expanded, margin at first straight and adpressed to the stem Stem horny, fistulose, sometimes stuffed, tough, and Mycehum rhizomorphoid, corticate
 - d Chordales Pileus campanulate or convex Stem rigid, 1415-1417 rooting or adnate by a dilated disc
 - e Rotulæ Pileus soon becoming somewhat plane or umbilicate Stem filiform, flaccid, inserted at the base Growing on leaves

1418-1422 Stem very smooth, shining 1423---1430 Stem velvety or pilose

C Pileus sessile, resupinate

1431

A

a Scrotia

- 1391 M urens Fr (from its burning taste uro, to burn) a b c
 - P convex to expanded, even or slightly squamulose or rimosorivulose, pale yellowish or brownish mid darker St solid, slightly attenuate upwards, white or yellowish, wholly whitefloccose G free to remote, pale yellowish-brown to brownish
 - Gregarious, somewhat crespitose Poisonous Taste becoming very pungent Woods, mixed, grassy places, on leaves, twigs, etc. frequent May-Sept $2\frac{1}{4} \times 4\frac{3}{8} \times \frac{1}{8}$ in
- 1892 M peronatus Fr (from the base of the stem, as if booted with strigose down, pero, a kind of boot) a b c
 - P hemispherical to expanded, slightly wrinkled marg striate, whitish-umber St stuffed to hollow, attenuate upwards, light yellow or pale brownish, densely woolly-sheathed at base with whitish or yellowish strigose down G adfived to free, crowded, whitish, yellowish or pale rufescent
 - Taste acrid Woods, oak, amongst leaves, twigs, etc., bramble, beech nuts, common July-Dec $3\frac{1}{2} \times 4\frac{1}{2} \times \frac{3}{16}$ in
- 1393 M porreus Fr (from its odour of garlic porrum, the leek)
 - P hemispherical to firt, coriaceo-membranous, dull yellowish or pale dull brownish, mid darker, marg striate St stuffed to hollow, equal, pubescent, whitish or brownish above, deep purple to almost black below G adnexo-free, distant, light yellowish
 - Odour strong, disagreeable alliaceous Woods, chiefiy amongst oak leaves, fir frequent Sept –Dec $2\frac{1}{4} \times 3\frac{3}{4} \times \frac{1}{4}$ in Dried examples more than one hundred years old retain the garlic odour
- 1394 M oreades Fr (from its growing in fair; rings, Gr oreias, a mountain nymph) a b c
 - P fleshy, hemisphenical to plane, obtuse or umbonate, even, smooth, whitish, pale yellowish or brownish, mid darker St solid to stuffed, equal, whitish G free, broad, distant, whitish or pale yellowish
 - Gregarious Edible Taste pleasant, odour agreeable, stronger when dry Pastures, lawns, roadsides, common May-Oct $2\frac{1}{2} \times 2_8 \times \frac{1}{8}$ in A colourless ketchup can be made from this Often pickled or dried for winter use
- 1395 M planeus Fr (from the—at length flat—pileus, planeus, flat) a c
 - P convex to plane and depressed, even, mid dark rosy-sienna, marg rufescent or lightish, becoming pale St hollow, attenuate downwards, white above, yellowish to brownish below G free, distant, yellowish or brown sh
 - Taste mild, sweet Woods, shady places, on the ground Autumn $1_4^3 \times 1_8^3 \times 1_{10}^8$ in

1896 M scorteus Fr (from its leathery substance, scorteus, leathery) a c Whitish or white

P convex, somewhat obtuse St somewhat fistulose, equal. smooth, fuscous when dry G free, broad, ventricose

Taste mild Woods, moist places, amongst grass under trees Aug -Jan 3 × 2 × 1 in Habit that of a small 1394

b Terema

1397 M prasiosmus Tr (from its odour of leek or garlic Gr prason, a leek, osme a scent) a b c

P campanulate to flat, obtuse, rugulose, pule buff mid pale sienna St fistulose pallid above, pale rufous or fuscous below G adnexed, somewhat crowded, whitish

Odour strong Amongst leaves July-Oct I x 21 x 1 in

1398 M varicosus Fr (from the blood-red juice, as if from a swollen vein, raria) a c

P campanulate to plane umbonate, even, dark rose- or reddishbrown, darker when dry marg paler St slightly attenuate upwards, claret-brown, almost black below filled with bloodred juice G very crowded, umber-fuscous or somewhat dark dull-purple, darker when dry

Solitary Odour none Damp mossy places Sept -Oct 12 & 2 × 1/2 in

1399 M fuscopurpureus Fi (from the dark purplish colours) a b c Tuiceless

P homispherical to plane slightly umbilicate somewhat wrinkled, dark to pale puiple-brown or tan St slightly attenuate upwards, rufous or dark purple, strigoso-downy and rubiginous at base G distant, rufescent, purple-brown or slate-purple

Solitary, crespitose or gregarious Odour none Woods, on sticks dead leaves, beech dead grass etc , frequent Aug -Oct 11 × 11 × 11 × 11 m

1400 M terginus Fi (from the leather, substance, tergum, hide, leather) a b c Juiceless

P campanulate to plane or slightly depressed, shining, fleshcolour to white marg striate St slightly attenuate upwards, shining, pallid or sulphury above, reddish below G somewhat crowded, pale yellowish, sulphury or salmon

Solitary or in purs Odour none Amongst leaves, beech, moss Oct-Nov $1\frac{1}{2} \times 2\frac{1}{4} \times \frac{1}{6}$ in This is M Stevensu L & Br

1401 M Wynnei B & Br (after Mrs Lloyd Wynne) a b c

P convexo-plane, subumbonate, lilac-brown, purplish-lavender or purplish-salmon, clouded pale slate St attenuate downwards, colour as P, or yellowish above to brown and brownblack at base within and without G adnexed or adnate. lılac, lavender or salmon

Gregarious or caspitose Odour none Amongst leaves, twigs, etc., on the ground Aug -Dec 14 × 34 × 16 in

- 1402 M erythropus Fr (from the red stem, Gr cruthros, red, pous, a foot) a b c Juiceless
 - P campanulate to flat, obtuse, slightly wrinkled, pale buff with sienna mid, paler at marg, becoming almost white St smooth, equal, dark red G veined, not crowded, whitish to pale salmon
 - Single or somewhat crespitose Odour none Woods, amongst dead leaves, beech, beech mast, neur and rarely on stumps, frequent Sept-Oct 2½ × 4½ × 1 m Sometimes becoming, purple black in drying
- 1403 M arehyropus Fr (perhaps an error for argyropus, Gr arguros, silver, pens, η foot, in reference to the white-pruinose stem) a b ε
 - P hemispherical to plane or slightly depressed, smooth, tan or salmon-shaded, becoming pale St pale yellowish or pallid rufescent, white pruinose G crowded, narrow, pallid
 - Cuspitose Odour none Amongst lewes rare Oct 11 x 3 x 1/2 in
- 1404 M torquescens Quel (from the twisted stem torqueo, to twist) a b
 - P convexo-plane, rugoso-striate, pallid-whitish mid tawny or fulvous St white above to brown or deepest brown below G thin, finely serrulate distant, white or whitish
 - Woods amongst oak leaves, twigs, etc., in moist places. Autumn $\frac{1}{2}\times 2\frac{4}{3}\times \frac{1}{17}$ in
- 1405 M impudieus Fr (from the odour impudieus, disgusting) a b c
 P convex to plane depressed or subumbonate, strato-plicate,
 bay-brown-rufous or rose-umber mid dail umber becoming
 pale St equal or attenuate downwards velveti, rufous or
 violaceous-purple, white downy, white when dry G free,
 venied, whitish flush-colour or salmon Flush rose-vinous
 - Gregarious Odom strong, discussing like burnt flannel and fittid, more powerful when cut or broken. On and about rotten pine trunks on pine levies Sept Oct. I $\times 1\frac{1}{2} \times \frac{1}{4}$ in

c Calopodes

- 1406 M scorodonius Fr (from the odour of garlic Gr stordion, a plant with the odour of garlic) a b c
 - P arid, wrinkled crisped, rufous or vellowish-sienna mid vinous, becoming pile to whitish St fistulose, equil, horn), rufous, paler above, darker or blackish below G adnate, veined, whitish
 - Usually gregarious Edible, esteemed for flavouring Odour strong Heaths and dry pistures, on twigs and leaves rare Oct 18×23×18 m
- 1407 M calopus Fr (from the beautiful stem Gr kalos beautiful, ρους, a foot) a b c
 - P rarely depressed, even, smooth, whitish St fistulose, slightly attenuate upwards, deep rich brown, paler above G slightly emarginate, white
 - Odour none On twigs, grass roots, etc Autumn 3 x 12 x 32 in

1408' M Vaillantii Fr (after Leon Vaillant, French botanist) a b c

P tough, and, plicato-rugose, whitish or pale yellowish St stuffed, attenuate downwards, date-brown, paler or whitish above, blackish below G adnate, subdecurrent, broad, distant, white

Odour none On dead wood, fallen twigs, leaves Sept -Oct $\frac{7}{5} \times 1\frac{1}{2} \times \frac{1}{16}$ in

1409 M angulatus B & Br (from the angular folds of the pileus) a b P phcato-angular, fuscous-whitish or yellowish, mid pale brownish St slightly enlarged above and below, base hairy, rufescent-grey or white above, brown-black below G adnexed, distant, whitish

On grass, submerged rushes, roots, on sandhills Aug 1 x 1 x 1/2 in

- 1410 M languidus Fr (from its weak substance, langueo, to be weak) a
 - P slightly fleshy, umbilicate, flocculose, rugoso-sulcate, whitish, light yellowish, or somewhat flesh-colour ST stuffed, attenuate downwards, naked, pailed to fuscous, white villous at base G adnate to decurrent, veined, white

Gregarious Odour none On dead grass, twigs $\frac{5}{8} \times \frac{9}{8} \times \frac{1}{16}$ in

1411 M fœtidus Fr (from its fetid odour) a b c

P convex to flat, umbilicate, striato-plicate, bay-brown-tawny or yellowish-sienna, mid almost black St fistulose, attenuate downwards, sometimes with a small floccose tubercle at base, deep brown, almost black below G adneved to subdecurrent, distant, veined, yellowish-rufescent or salmon Flesh claretbrown, becoming pale

Odour strong of burnt flannel or horse radish, very fetid Dead twigs, rotten branches, etc. rare Aug -Jan $1\frac{1}{18} \times 1\frac{1}{2} \times \frac{1}{18}$ in

1411a M lagopinus Post ex Fr (from the squamulose base of the stem, (r lagopous, hare's foot) a

P convex, then plane, even, glabrous, pallid St slender, equal, whitish, upper half glabrous, lower half with white spreading sq G adnate, slightly ventricose, straw-colour

Gregarious Dead branches Oct 1 x 1 x 1 x 10 in

1412 M amadelphus Fr (from its nearness to 1413, Gr an, together, adelphos, a brother) a c Pale buff

P and, convex to plane, umbilicate, striate, mid darker St stuffed, equal, sometimes with an almost obsolete tubercle G adnato-decurrent, distant

Gregarious Odour none Dead branches, twigs, rare Sept-Dec $\frac{3}{8}\times\frac{7}{4}\times\frac{1}{4}$ in

1413 M ramealis Fr (from its habitat, ramus, a branch) a b c

P and, convex to plane, obtuse or depressed, white, mid rufescent St stuffed, whitish, rufescent at base, sometimes with a small tubercle G adnate, subdistant, whitish

Densely gregarious Odour none Dead twigs, branches, burnt sticks, juniper, willow, bramble, common May-Jan $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{18}$ in

- 1414 M candidus Fr (from its white colour, candidus, shining white)
 a b c
 - P campanulate to expanded or depressed, becoming sulcatorugulose, wholly white or with mid pale brown St stuffed, base floccose, white with a brownish base or wholly white G adnexed, ventricose, distant

Gregarious, twigs, rotten stems, pine, cedar, leaves Sept -Nov &x 1 x 1 in

В

d Chordalis

- 1415 M alliaceus Fr (from its odour of garlic, allium) a b c
 - P campanulate to expanded, subumbonate, smooth, dry, striate, white or faintly ochre to fuscous St fistulose, minutely velvety, blackish or deep dull purple, paler above G adneved, ventricose, subdistant, whitish or fuscous-whitish
 - Odour strong persistent Woods, leaves, rotten wood, frequent Aug-Oct $1\frac{1}{2} \times 4 \times \frac{1}{16}$ in
- 1416 M caulicinalis Fr (from its habitat—growing on stalks and stems, caulis, a stem) a b c
 - P striate, bright or dull yellow or yellowish sienna St fistulose, equil, floccoso-villous, sulphur above, dark sienna below G adnato-decurrent, subdistant, veined, pallid light yellow or pale sulphur
 - First very bitter. On fir cones leaves, etc. rare. Aug. Nov. $1 \times 1_2 \times \frac{1}{10}$ in
- 1417 M torquatus Fr (from the sometimes twisted stem torqueo, to twist) a b
 - P membranous, campunulate, obtuse, plicato-sulcate, whitish mid bright sienna St hollow, smooth, shining, base dilated-tuberculose, ivory G adnite, distant, thick, connected by veins forming a collar near St, white Flish in P pale sienna, clsewhere white

Stems and leaves Autumn 32 × 12 × 2 in

ı Rotula

- 1418 M rotula Fr (from the resemblance of the pileus—seen from below—to a little wheel rota, a wheel) a b c
 - P and, henuspherical, umbilicato-depressed, whitish or brownish, marg undulato-crenulate St fistulose, horny, often branched, sometimes barren, ulackish, paler above G adnate to a free collar, broad, few, distant, white
 - Gregarious or exspitose, with root like branches Dead (wigs, stumps, old roots, branches, grass roots, yew, elm, maple oak, common June-Jan $\frac{1}{2} \times \frac{1}{2^4} \times \frac{1}{4^4}$ in
- 1419 M graminum B & Br (from its usual habitat, leaves and stems of grass, gramen) a b c
 - P campanulate to expanded, subumbonate, sulcate, pale, rufous-brown or salmon, mid darker St shining, hair-like, black,

whitish above G adnate to a free collar, ventricose, distant, veined, white or pale yellowish

On grass, leaves, twigs, etc., uncommon July-Feb $\frac{3}{8} \times 2\frac{1}{4} \times \frac{1}{64}$ in

1420 M androsaceus Fr (derivation uncertain) a b c

P and, convex to expanded, subumbilicate, smooth, striate, white pale buff or somewhat fuscous St fistulose, horny, black, paler above G adnate, without a collar, distant, whitish to salmon

Woods, leaves, twigs, briar, beech, oil, acorn cups, rushes, fern stems, fir, juniper, larch, common April-Dec $\frac{1}{2} \times 2 \times \frac{1}{6} t$ in Sometimes growing from entangled masses of black horsehair-like mycelium Sometimes non pileate stems only produced

1421 M splachnoides Fr (from the gut-like stem, Gr splagchna, intestines, endos, appearance) a b c

P convex to flat, umbilicate, smooth, striate, white, mid pale yellowish St fistulose, horny, usually red, becoming fuscous or pale above and sienna below, or dark brown G subdecurrent, crowded, anastomosing

Odour none Amongst pine leaves ()ct $\frac{1}{4} \times 2 \times \frac{1}{64}$ in

1422 M Curreyi B & Br (after Frederick Cuires) a

P convex to expanded or plane, sulcate, pallid rufous mid fuscous or yellowish-sienna St black, white above G attached to a free collar, few, subventricose, veined, pale yellowish

On grass Aug & x 11 x 11 in

1423 M perforans Fr (from the habit, the stem perforating the leaves on which it grows) $a \epsilon$

P hemispherical to convexo-plane, not umbilicate, white or whitish, becoming pale rufescent St fistulose, tough, equal, bay-brown to black G adnate, subdistant, whitish

Odour very fettid, not of garlic Leaves, fir, larch rare Aug-Oct $\frac{2}{3} \times 2\frac{1}{4} \times \frac{1}{34}$ in

1424 M institus Fr (from the habit—the stem ingrafted on the host-plant, insero, to insert) a b c

P arid, convexo-plane, subumbilicate, plicato-sulcate, white or purplish-salmon-whitish St fistulose, horny, attenuate downwards, rufous to fuscous or sienna, paler above G adnate, distant, white or pale salmon-purplish

Gregarious Odour none Leaves, oak, decaved grass, etc , rare Aug – Oct $-\frac{1}{8}\times 2\times \frac{1}{32}$ in

1424a M sclerotipes Bres (from the hard sclerotium at the foot of the stem, ρes , a foot) α

P membranous, convex, then plane, umbilicate, ruguloso-striate, subflocculose, marg reflexed, white, mid yellow St filiform, pruinose under a lens, pallid rufescent, apex whitish, base

adnate to a rufescent yellowish sclerotium G distant, adnate, white

On the ground, swampy places $\frac{1}{4} \times \frac{7}{8} \times \frac{1}{20}$ in Autumn Sclerotium $\frac{1}{8}$ in long

- 1425 M Hudsonii Fr (after William Hudson, author of "Flora Anglica") a b c
 - P hemispherical, usually sulcate, pale fuscous-rufescent, rosepurple to white with sienna mid beset with erect purple hairs St horny, dark purple, paler above G adnexed, white

Odour none On fallen holly leaves, frequent Mar -Dec 1x12x11 in

- 1426 M epichloe Fr (from its habit, growing on grasses, Gr ερί, upon, chloe, grass) α b
 - P plano-convex, somewhat papillate, not striate, whitish or pale brownish-yellow, mid darker St striate, bay-brown G adnexo-rounded, somewhat crowded, pale yellowish, faintly brown

Base of dead grasses, spines of Robinia Aug -Oct 3 x 11 x 11 in

- 1427 M actinophorus B & Br (from the brownish star on the pileus, Gr aktis, a ray of light, phero, to bear) a b c
 - P convex, umbilicate, bay-brown or pale sienna, clouded with an indefinite brownish star at mid St pallid or brown, paler above G few, adnato-decurrent, white or pale yellowish

Fallen twigs, sometimes terrestrial Aug $\frac{1}{4} \times \frac{7}{8} \times \frac{1}{84}$ in

- 1428 M saceharinus Fr (from the pileus, as if powdered with white sugar, saccharen) a b c
 - P campanulate to convexo-expanded, papillate, sulcate, white St flocculose to smooth, reddish, pale above G adnate, thick, distant, reticulato-wrinkled, whitish

Dead twigs, leaves , rare Aug $\frac{3}{3} \times \frac{3}{4} \times \frac{1}{32}$ in Pileus sometimes marked as in 1427

- 1429 M epiphyllus Fr (from the habit—growing on leaves, Gr epi, upon, phullon, a leaf) a b c
 - P convex to plane, umbilicate, plicato-rugose, white St fistilose, subhorny, date-brown or sienna, white above G adnate, distant, veined and branched, white
 - Gregarious Odour none Dead leaves, especially 1vy, twigs, etc., oak, beech, poplar, common Sept –Dec $\frac{3}{8} \times \frac{1}{2} \times \frac{1}{4} \times \frac{1}{4}$ n Pilcus sometimes marked as 1427, sometimes without gills, or gills replaced by wrinkles
- 1430 M polyadelphus Cooke (from its growing in crowded patches, Gr polus, many, adelphos, a brother) a White
 - P hemispherical, sulcate, flocculose
 G subdecurrent, almost fold-like

 St tough floccose below

Densely gregarious Dead leaves, etc Autumn $\frac{3}{16} \times \frac{1}{2} \times \frac{1}{64}$ in

C

1431 M spodoleueus B & Br (from its grey pileus and white gills, Gr spodos, wood-ash, leukos, white) a b c

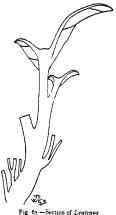
P at first flat, resupinate, then campanulate, at length pendulous, pulverulent or subfurfuraceous, cinereous or pale umber G inside bell, few, short, leaving a naked space at apex of bell, interstices even Flesh umber

Dead twigs, elm Nov -Mar Diam $\frac{3}{4}$ in The same as M Broomes Berk Sometimes not unlike 1449

LIII LENTINUS Fr

(From the tough, pliant substance, lintus, tough or pliant)

Veil ragged-pendulous at the margin of the pileus and more or less fugitive-annulate in the first section, in the other—except 1439—



cochleatus Fr
One half natural size

obsolete Pilius fleshy-conaceous, pliant or hard, persistent Stem hard, central, lateral or obsolete, continuous with the hymenophore when piesent Gills concrete with the hymenophore, thin, membranous, unequal, tough, edge acute, often serrate, crenate or irregular, trama none Spores white (Fig. 67)

Growing on wood, rarely terrestrial, polymorphous, somewhat irregular Distinguished from *Pleu*rotus by the hardness of the flesh and the serrate gills Species 1432—1441

MESOPODÆ Pilcus nearly entire, margin at first inrolled Stem distinct

> a Lepidea Pileus scaly More or less veiled 1432, 1433 b Pulverulenta Pileus villous

> or pulverulent 1434—1486 c Cochleatæ Pileus smooth

> > 1437

PLEUROTÆ Dimidiate, sessile or furnished with a somewhat lateral stem 1438—1441

MESOPODÆ

a Lepideæ

1482 L tigrinus Fr (from the tiger-like markings of the pileus) a b c P convex, umbilicate to infundibuliform, pale yellowish, clad with umber sc, mid sepia St solid, equal or attenuate

- downwards, central to excentric, fugitive-torn-annulate, pale yellowish G decurrent, crowded, white or pale pallid yellowish
- Often subgregations or cospitose Tasteless, odour strong, acrid or acid Stumps, oak, ash, poplar, fir, rare April-Oct $2\frac{n}{4} \times 1\frac{1}{8} \times \frac{1}{4}$ in Var Dunalii Fr P with adpressed separating, spot like sc, then even
- 1488 L lepideus Fr (from the scaly pileus, Gr lepis, a scale) a b c P convex to depressed, pale yellowish, clad with umber sc, mid darker St solid, almost woody, irregular, usually somewhat excentric and attenuate downwards, colour as P, dark sienna-umber at base, fugitive-torn-annulate G decurrent or sinuate, crowded, pale yellowish
 - Solitary or subcrespitose Odour strong, from pleasant to that of rotten cheese On pine wood, trunks, stumps, fallen pines, elm, railway sleepers, wooden bridges, in houses, cellars, railway tunnels $Mar Oct 5\frac{3}{8} \times 5\frac{1}{4} \times 1$ in Olten abnormal and Clavaria like Sometimes phosphorescent Var continuus Fr P thinner, plano-depressed, even 3t telender, even

b Pulverulentæ

- 1434 L leontopodius Schulz ex Fr (from a fancied resemblance in the shape and colour of the pileus to a lion's foot Gr leon, a lion, pous, a foot) a
 - P expanded, depressed, boldly lobed, tan-clay colour, cinnamon or salmon-umber St woody, equal, excentric, pulverulent, pale chestnut or umber-salmon, blackish downwards G decurrent, veined, white
 - Gregarious or crespitose in small clusters Taste pleasant, sweet Decayed willow Autumn $7 \times 3 \times 1\frac{1}{2}$ in
- 1435 L pulverulentus Fr (from the pulverulent pileus) a
 - P convex, yellow, ochreous-cinnamon or umber-yellowish, lighter at marg, white-pulverulent St solid, excentric, velvety dark umber above, brownish-yellow below G crowded, sub-decurrent, white or pale yellowish
 - Somewhat cuspitose, sometimes connato branched and deeply rooting Dead trunks, pines Oct $1\frac{1}{2} \times 3 \times \frac{1}{2}$ in Nar resinaceus Fr P somewhat gummy villous
- **1436** L adhærens F1 (from the sticky gluten of the pileus and stem) a
 - P convex, subumbonate, then depressed to subinfundibuliform, sulcate, umber-tan or umber-yellowish. St somewhat hollow, rooting, white, then as P G sinuato-decurrent, thin, white
 - Taste at length astringent Woods, pine, rare Autumn $1\frac{3}{4} \times 2\frac{1}{2} \times \frac{1}{4}$ in
- 1436a L suffrutescens Fr (from the somewhat branching habit, frut.x, a shrub) a
 - frutex, a shrub) a P tough, convex, then infundibuliform, unequal, glabrous, whitish, becoming brown stained St elongated, somewhat

branched, woody, pubescent, colour as P G crenato-torn, yellowish

Squared wood in cellars Feb $3\frac{1}{4} \times 6 \times \frac{1}{2}$ in Often abnormal in habit

c Cochleatæ

- 1437 L cochleatus Fr (from the shape of the pileus, somewhat shell-like, cochlea, a snail-shell) a b c
 - P convexo-umbilicate, subinfundibuliform, at length irregularly lobed, brownish-yellow mid darker St usually branched, proliferous and irregularly indented, central to almost lateral, colour as P, sienna-umber at base G decurrent, crowded, lighter than P, or white flesh-colour
 - Solitary to crespitoso proliferous Said to be edible Odour strong of anise, spicy, often scenting the air for long distances Trunks, stumps and on the ground, frequent Aug-Oct 2½ × 5 × ½ in Changes to rich brown or blackish in drying

PLEUROTÆ

- 1438 L scotieus B & Br ex Fr (from its first observed place of growth—Scotland) a b c
 - P convexo-umbilicate to expanded and depressed, pallid to brownish or yellowish-buff, hygrophanous, marg lobed, sinuate or plicate St solid, darker than P or yellowish-sienna G decurrent, subdistant, white
 - Solitary or cæspitose Odour none Decayed stumps and rotten wood, furze, birch, spruce Nov -Jan 24 × 3 × 1/4 in Stem sometimes absent and pileus reniform
- **1439 L fimbriatus** Curr (from the fugitive fimbriate annulus in infancy) *a c*
 - P convex to deeply depressed, floccose-scally, fawn-colour or umber-salmon, marg substrigose St solid, lateral, rough with reflexed sc, brown-white G subdecurrent, pale brown or salmon-white

Imbricate Stumps, posts Sept \$ x \frac{1}{4} \times \frac{1}{4} in

- 1440 L vulpinus Fr (from its strong, often foxy, odour, vulpes, a fox) a b c
 - P sessile, reniform-conchate, surface rough and corrugate with raised radiating ribs or adnate teeth, warm yellow-brownish, marg rose flesh-brown, base darker G extended to base, crowded, brownish, pale yellow or pale yellowish-rose
 - Imbricate Odour sometimes of field mint Trunks, stumps, rare Mar-Oct Diam 5 in Becomes black in drying
- 1441 L flabelliformis Fr (from the fan-shaped pileus flabellum, a small fan, forma, form) a c
 - P sessile, remform, marg corrugate, at length curled backwards, smooth, fawn-colour or yellowish-brown, darker at base St

rudimentary G extended to base, subdistant, somewhat thick, whitish or faintly shaded as P

Imbricate Old trees, stumps, trunks, rare Feb Diam 23 in

LIV PANUS Fr

(A name given to an arboreal fungus by Pliny)

Val obsolete Pileus fibrous, fleshy-coriaceous Stem lateral or none, when present confluent with the hymenophore Gills entire,



Fig 68-A, section of I anus tormosus Fr One half natural size is section of I stypticus Fr c ditto I patellaris Fr Natural size

concrete with the hymenophore, at length corraceous, edge acute, not serrate Spons white (Fig. 68)

Growing on stumps and lasting long

Species 1442—1447

Pileus irregular Stem excentric
Stem lateral

1442, 1448 1444, 1445

Pilius resupinate, sessile or extended behind

1446, 1447

- 1442 P conchatus Fr (from the shape, like certain shells, concha, a shell) a b c
 - P more or less dimidiate, deeply depressed, fleshy, pliant, thin, cinnamon or brownish-yellow, pale sienna-scaly in old examples St solid, equal or attenuate downwards, brownish-yellow G deeply decurrent, narrow, whitish or pale flesh-colour, at length yellowish
 - C espitose, often imbricate Trunks, stumps, beecn, poplar, lime, rare June–Oct $4\frac{1}{4} \times \frac{3}{4} \times \frac{1}{2}$ in Stem sometimes branching
- 1443 P torulosus Fr (from the hairy down on the stem, torulus, a tuft of hair) a b c
 - P entire, plane to infundibuliform, compactly fleshy, even, smooth, brownish-yellow, buff or rufescent-livid, sometimes minutely sienna-scaly St solid, equal, oblique, grey, violaceous or buff-downy G deeply decurrent, subdistant, reddish, \tan or yellowish
 - Caspitose Old trunks, stumps, ash, birch, willow, oak, frequent May-Aug $3\frac{3}{4} \times 1\frac{1}{4} \times \frac{3}{4}$ in

1448a P rudis Fr (from its rough appearance, rudis, rough) a b

P becoming corky, thin, unequal, bristling with hairs, ochreous-fawn or reddish, lilac shaded, marg incurved St short, unequal, shaggy-velvety, ochreous-fawn, hairs lilac G very decurrent, very crowded, narrow whitish pink, then pale ochreous-fawn, sometimes lilac shaded Flesh white

Cespitose Odour pleasant of anise Trunks, beech May $2\frac{7}{8} \times 2\frac{1}{2} \times \frac{1}{2}$ in

- 1444 P stypticus Fr (from its astringent taste, stypticus, astringent)
 - P and, thin, reinform, sometimes minutely white-furfuraceous scaly, tan or crinnamon, becoming pale St attenuate downwards, prunose, paler than G G adnate, thin, crowded, salmon or ochreous-salmon to crinnamon
 - Gregarious, cespitose, usually denselv imbricate $\begin{array}{lll} \text{Taste hot, pungent} & \text{On} \\ \text{decaying stumps, trunks, dead trees, etc., fir, alder, beech, oak, common} \\ \text{Feb-Dec} & 1\frac{1}{2} \times \frac{1}{4} \times \frac{1}{4} \text{ in} & \text{Becoming wholly rich orange} \\ \text{when dry} \end{array}$
- 1445 P farmaceus Fr (from the scurfy pileus, farma, meal)
 - P somewhat corraceous, flexuous, reniform, cinnamon-umber with pale grey scurf St coloui as P G adnexed distinct, paler than P or yellow ochre Flish whitish-grey
 - Trunks, branches, fir Dec $1 \times \frac{1}{2} \times \frac{1}{4}$ in Not unlike 1444 or 439 ar appearance Var albidotomentous Cooke & Mass P clad with short celvety whitish down St short or absent Often in imbricate tifts $P \notin \frac{1}{4}$ in in diam
- 1446 P patellaris Fr (from the shape, like a small dish, patella) a P sessile, resupinate, coriaceous, at first viscid, umber or dark sepia to buff marg white St obsolete or rudimentary G concurrent to a subcentral point, and, yellowish to somewhat pale cinnamon

Branches, cherry, beech Mar 4 in in diam

1447 P Stevensonii B & Br (after the Rev John Stevenson)
P spathulate, olivaceous light yellow St attenuate downwards, convex, slightly hispid, golden G narrow, entire

Oak Sept -Oct

LV XEROTUS Fr

(From the dry substance and ear-like shape, Gr xeros, dry, ous, an ear)

Veil obsolete Pileus coraceo membranous Slim central, continuous with the hymenophore, which descends into the trama Gills adnato decurrent, coraceous, broadly fold-like, dichotomous, edge entire, obtuse Spores white (Fig 69)

Rigid, persistent, analogous with Cantharellus, but differing in its leathery substance

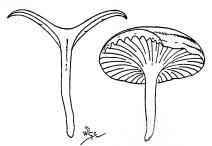


Fig 69 — $\lambda i rotus digener$ Fr in section and entire with portion removed to show the gills. Natural size

1448 X degener Fr (from its ill-developed condition in comparison with other species of $\lambda crotus$, degener, degenerate) a b

P thin, very tough, plano-infundibuliform, somewhat zoned, striate when moist, floculose when dry, brown-grey to grey, cinnamon, salmon or pale yellowish-brown St solid to stuffed, attenuate downwards G very distant, whitish-grey, yellowish or salmon-white

Peaty ground, amongst short grass in sterile gravelly places. Jan ${\bf I}_4^3 \times {\bf I}_4^1 \times {\bf I}_8^1$ in

LVI TROGIA Fr

(After Jacob Gabriel Trog, Swedish botanist)

Pileus membranous, soft, flaccid, and, persistent, texture fibrillose Stem lateral or none Gills fold-like, venose, edge in the only

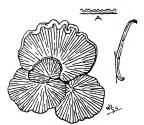


Fig 70 — Trogga crispa Fr entire and in section Natural size
A, section across gill

1443a P rudis Fr (from its rough appearance, rudis, rough) a b
P becoming corky, thin, unequal, bristling with hairs, ochreous-

fawn or reddish, lilac shaded, marg incurved St short, unequal, shaggy-telvett, ochreous-fawn, hars lilac G very decurrent, very crowded, narrow whitish pink, then pale ochreous-fawn, sometimes lilac shaded Flesh white

Crespitose Odour pleasant of anise Trunks, beech May $2\frac{7}{8} \times 2\frac{1}{2} \times \frac{1}{2}$ in

- 1444 P styptieus Fr (from its astringent taste, stypticus, astringent)
 a b c
 - P and, thin, reinform, sometimes minutely white-furfuraceous scaly, tan or cuinamon, becoming pale. St attenuate downwards, prunose, paler than G G adnate, thin, clowded, salmon or ochreous-salmon to cuinamon
 - Gregarious, crespitose, usually denselv imbricate $\mbox{$T$ aste hot, pungent}$ On decaying stumps, trunks, dead trees, etc., fir, alder, beech, oak, common Feb –Dec $\mbox{$1\frac{1}{2}\times\frac{1}{2}\times\frac{1}{2}$ in}$ Becoming wholly rich orange when dry,
- 1445 P farmaceus Fr (from the scurfy pileus, farma, meal) a b c
 - P somewhat corraceous, flexuous, reniform, cinnamon-umber with pale grey scurf St coloui as P G adnexed distinct, paler than P or yellow ochre Flish whitish-grey
 - Trunks, branches, fir Dec $1 \times \frac{1}{5} \times \frac{1}{16}$ in Not unlike 1444 or 439 ar appearance Var albidotomentous Cooke & Mass I' clad with short velvety whitsh down St short or absent Often in imbricate tufts $P \not = I$ in in diam
- 1446 P patellaris Fr (from the shape, like a small dish, fatilla) a P sessile, resupinate, coriaceous, at first viscid, umber or dark sepia to buff marg white St obsolete or rudimentity. G concurrent to a subcentral point, and, yellowish to somewhat pale cinnamon

Branches, cherry, beech Mar 4 in in diam

1447 P Stevensonii B & Br (after the Rev John Stevenson)
P spathulate, ohvaceous light yellow St attenuate downwards, convex, slightly hispid, golden G narrow, entire

Oak Sept -Oct

LV XEROTUS Fr

(From the dry substance and ear-like shape, Gr xeros, dry, ous, an ear)

Veil obsolete Pileus coriaceo membranous Slem central, continuous with the hymenophore, which descends into the trama Gills adnato decurrent, coriaceous, broadly fold-like, dichotomous, edge entire, obtuse Spores white (Fig 69)

Rigid, persistent, analogous with Cantharellus, but differing in its leathery substance

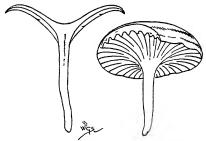


Fig 69 - Acrotus digener Fr in section and entire with portion removed to show the gills Natural size

- **1448** X degener Fr (from its ill-developed condition in comparison with other species of *Xerotus*, degener, degenerate) a b
 - P thin, very tough, plano-infundibuliform, somewhat zoned, striate when moist, floculose when dry, brown-grey to grey, cinnamon, salmon or pale yellowish-brown St solid to stuffed, attenuate downwards G very distant, whitish-grey, yellowish or salmon-white

Peaty ground, amongst short grass in sterile gravelly places. Jan 13 × 14 × 5 in

LVI TROGIA Fr

(After Jacob Gabriel Trog, Swedish botanist)

Pileus membranous, soft, flaccid, and, persistent, texture fibrillose Stem lateral or none Gills fold-like, venose, edge in the only

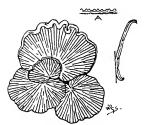


Fig 70 — Trugs 1 crispa Fr entire and in section Natural size
A, section across gills

European species obtuse, crisped, not channelled as in non-European species Spores white (Fig 70)

Growing on wood, becoming dry and reviving with moisture

1449 T crispa F1 (from the crisped gills) a b c

P cup-shaped, expanded, resuprnate, light-yellowish-rufescent, zoned rufous, marg whitish, sometimes almost white St obsolete or rudimentary G vein-like, dichotomous, narrow, white to steel-grey

Gregarious, imbricate Logs, branches, twigs, beech, birch, uncommon Jan -Dec Diam 13 in Sometimes almost wholly white

LVII SCHIZOPHYLLUM Fr

(From the gills, split longitudinally at the edge Gr schize, to split, phullon, a leaf)

Veil obsolete Pileus thin, and Stem lateral or none Gills cornaceous, channelled longitudinally with edges revolute Spores white (Fig 71)

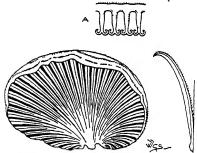


Fig 71 —Schizophyllum commune Fr, entire and in section Natural size A section across gills X 10

1450 S commune Fr (from its being common in certain countries, communis, common) a b c

P and, at first cup-like, then expanded, reniform or excentric, resupinate, down), white or umber-white, commonly zoned greyish St rudimentary or none G splitting, the edges revolute, fuscous-grey to purplish, cinereous or clay-white to tan-salmon

Saud to be edible Sold in a dry state in China for soup, 800 lbs wcre exported from Auckland, New Zealand, to China in 1872 Dead wood, rotten trunks, logs, water butts, beer casks, wood in greenhouses, horse chestnut, beech, alder, dry hay in silos, rare in Britain May Jan Diam 2 in

LVIII LENZITES Fr

(After Harold Othmar Lenz, German botanist)

Val obsolete Pilas corky or coraceous, texture and, floccose, dimidiate, sessile Stem lateral or none Gills coraceous, firm,

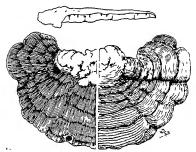


Fig 72 -Len ites 'etulina Fr entire ind in section. Lower surface on left upper on right. One third natural size

sometimes simple and unequal, sometimes anastomosing and forming pores behind, edge obtuse to acute, trama floccose, similar to the pileus $(Fig\ 72)$

Growing on wood, persistent Allied most nearly to Trametes and Dadalea amongst the Polyporaeea Species 1451—1455
On wood of deciduous trees 1451, 1452
On coniferous wood 1453—1455

1451 L betulina Fr (from its frequent habitat, birch trunks, betula, birch) a b c

P firm, rigid, tomentoso-woolly, flat, lobed, white, greyish, buff or umber-whitish, marg and z darker G reaching the base, simple, branched or anastomosing, edge acute Flesh white

Often imbricate Stumps, logs, gate posts, birch, oak, bird cherry, alder, perennial, common Jan-Dec Diam & in When young small, resupinate, with gills radiating from a central point Often green with unicellular Algar Surface and coloration of pileus like that of 2001

1452 L flaceida Fr (from the flaccid substance) a b c

P thin, easily bent, flat, lobed, whitish to dingy, zoned same colour G reaching the base or an excentric point, broad, crowded, simple or branched towards base, not anastomosing, white to salmon Flesh white

Stumps, beech Mar - Jan Diam 4 in Pileus often green as in 1451

1458. L sæpiaria Fr (from the habitat, fences, sæpis, a hedge) a b c P thin, flat, lobed, strigoso-tomentose to squamulose, zoned, tawny-yellow to brown, black when old G reaching to and anastomosing at the base, rigid, firm, yellowish to umber Flesh tawny to dark sienna

Often imbricate Trunks, fences, pine Jan -Dec Diam 5 in

1454 L abietina Fr (from its habitat, firs, abies) a b c

P thin, flat, tomentose, becoming smooth, umber or yellowish-nch-brown or deep umber-sienna, zoned dark umber, marg bright sienna-yellow, or wholly vinous G reaching the base, distant, simple, unequal, not anastomosing but torn into teeth at the base, salmon or yellowish-brown

Imbricate Chiefly dressed fir, deal, trunks, branches Oct Diam 3\frac{3}{4} in Sometimes remaining resupinate

- 1455 L heteromorpha Fr (from its varied shapes, Gr heteros, different, morphi, shape) a b c
 - P gibbous, rugose, thin to thick, yellowish- or buff-white, or colour of washleather G reaching the base, branched, crowded, often broken into teeth sometimes effused, colour as P

Imbricate Fences, sticks, chips, bark, pine Oct Diam 3, in , some times effused to 7 in or more

FAM II POLYPORACEÆ

Hymenium inferior, in resupinate species superior, consisting of tubes with poriform orifices which are round or angular, sometimes sinuous or torn

Fleshy, corraceous or woods fungs, intermediate between Agaricacca and Hydnacca, connected with the former by Tranctes and Dadalea, and with the latter by Fistulina Species 1456—1686

The sequence of the genera and species is almost identical with the latest views of Fries as expressed in his Hyminomycets Europæi, 1874. An exception is made in the genus Polyporus, which is here broken up into four genera—Polyporus, Fomes, Polystictus and Poria, as given by Cooke in 1885 and 1886, in his Præcursoris ad Monographia Polypororum, in Griculla, xiii, pp 80 and 114, xii, pp 17, 77 and 109, and vi, p 19, with additions and corrections on p 50. Cooke based his work on the Novæ Symbolæ Mycologicæ of Fries, published in 1851, but in this Fries only suggested that one section of Polyporus should be elevated to generic rank, viz Polystictus Saccardo, in his Syllog Fungerum, vii, 1888, immediately adopted Cooke's views. It is in deference to the laborious work of Cooke that the old genus Polyporus is here broken up into four

KEY 10 THE GENERA

Terrestrial		
Tubes easily separable from the hymenophore Stem		
central	59	Bole1 us
Tubes not separable, very large with transverse dis	-	
sepiments Stem central	60	STROBILOMYCES
Mostly growing on trunks, stumps or wood		
Stipitate to sessile Tubes small, without dissepi		
ments Substance fleshy, hard, tough or some		
what soft	62	Polyporus
Sessile		
Substance fleshy, juicy	61	FISTULINA
Substance woody	63	Fomes
Substance corraceous, spongy or membranous	_	
Pores round	64	POLYSTICTUS
Pores oval or elongate	66	1 rametes
Pores sinuous	67	D ÆDAI EA
Sessile to resupinate Substance cartilagino-soft		
to subgelatinous	68	MERULIUS
Resupinate		
Substance thin, woody or waxy	65	PORIA
Hymenophore covered with granules	69	POROTHELIUM
	•	

LIX BOLETUS Dill

(From the clod-like shape of the pileus Gr bolos, a clod)

Vil universal, forming an annulus, perfect to imperfect or obsolete Pileus fleshy Stem central, fleshy continuous and homo-

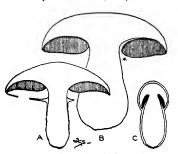


Fig 73—A section of Beletus luteus L showing gelatinous membranous veil B, section of B edulus Bull showing at *tube-separating from hymenophore c section of b cyanteceus Bull young example showing universal floccoso scaly veil One third natural size

geneous with the hymenophore, annulate to simple Tubes distinct from the hymenophore, connected in a stratum, the surface of which

is dotted with their orifices or pores, easily separating from the hymenophore and from one another, the mouths of the tubes or pores are round or angular, in the subgenus Gyrodon sinuous or gyroso-plicate, trama none Spores usually fusiform, rarely oval or roundish, white, rosy, yellowish or brown (Fig 73)

Terrestrial, fleshy, putrescent fungi, mostly edible, a few Species 1456—1515

poisonous

SUBGENUS I EUBOLETUS Porcs round or angular, not sinuous or gyroso-plicate Trama not descending between the tubes

1456---1513

EUCHROÆ Tubes usually yellow, not white or grey

- Viscipelles Stem solid, not bulbous or reticulate, except 1458 Tubes adnate, decurrent in 1457, 1467 and 1468 Pores rarely sinuate, of one colour Spores usually yellowish
- Pileus villous when young, rarely at length b Subtomentosæ becoming smooth Stem not bulbous or reticulate, here and there rugose or striate Flish rarely changing colour Tubes adnate, of one colour 1469--1477
- c Subprumosæ Pileus prumose to smooth Stem equal, even, not bulbous or reticulate Tubes adnate, vellowish

1478-1481

- d Calopodes Stem stout, at first bulbous, reticulate reticulations usually red
- e Edules Stem stout, bulbous, not reticulate or dotted red except 1489, 1490, 1491 and 1493 Tubes somewhat free, adnate in 1494 Pores not red Flish scarcely changing colour Taste pleasant 1489-1497
- f Luridæ Pilius pulvinate, compact then soft Stim stout at first, curt and bulbous, then elongate and clavate to nearly equal, somewhat reticulate or dotted Tubis rounded-free Pores red to red-brown Flish juicy Suspected poisonous Growing chiefly in woods of deciduous trees

TEPHROLEUCÆ Tubes at first white or grey

Tubes large, angular, unequal, often shortened Spores brown near the stem, adnate, not rounded-free

1501-1504

- h Versipelles Tubes free, ventricose Pores minute, round, equal Sports ferruginous 1505-1508
- 1 Hyporhodia Tubes whitish to pale salmon Spores rosy to white flesh-colour 1509, 1510
- 1 Cariosæ Stem not reticulate, stuffed to hollow Tubes white to light yellowish Pores minute, round Spores white 1511-1518

SUBGENUS 2 GYRODON Tubes short, somewhat adnate Pores sinuous or gyroso-plicate 1514, 1515 Subgenus 3 Boletinus Trama descending somewhat between the tubes, the hymenophore is therefore not smooth after their removal, in this respect Boletinus resembles Strobilomyces. The relationship between Boletinus and Boletinus is similar to that between Polyporus and Trametis

SUBGENUS I EUBOLETUS

(From being typical examples of the genus, Gr en, well)

Euchroæ

a Viscipelles

1456 B luteus L (from the yellow tubes, luteus, yellow) a b c

P gibbous, pulvinate to convex, deep vinous brown, covered with dark purplish gluten which is at first continuous over the tubes, forming a V St equal, dull light yellowish A large, membranous, white to dark purplish T yellow or brownish-yellow Po minute

Edible Woods, pine common July-Nov 5 x 23 x 7 in

1457 B elegans Schum (from its elegance) a b c

P convex, dark rich yellow, shaded orange St sulphur to orange above A, darker below A broad, fugacious, sulphur T decurrent, sulphur to bright vellow Po minute

Woods, chiefly larch, oak pine , common $\;\;$ June-Oct $\;\;$ $4\frac{1}{8}\times2\frac{3}{4}\times\frac{7}{8}$ in

- 1458 B flavus With (from the yellow pileus flatus, light yellow) a b c
 - P convex or pulvinnte, full luminous yellow, covered when young with claret-brown gluten St equal, reticulate, yellow above, brownish-yellow below A membranous, fugacious, white to yellow-white T adnate, bright yellow or brownish-yellow Po larger than in 1456 and 1457

Woods, mixed, common Aug -\ov $4\frac{1}{4} \times 3\frac{1}{2} \times \frac{2}{8}$ in

- 1459 B flavidus Fr (from the yellowish pileus, flavidus, light yellowish) a b c
 - P convex, obtuse, brownish-yellow or pile yellowish-buff St equal, whitish-yellow or straw-colour, granular above the brownish viscid A T admite to slightly decurrent, yellow, somewhat sulphur Po angular Flesh pale ochre

Woods, pine July-Oct 21 x 21 x 1 in

- 1460 B collinitus Fr (from the gluten-besmeared pileus collino, to besmear) a b c
 - P pulvinate to expanded and slightly depressed brownish-buff, sometimes pale, covered with rich vinous-brown gluten St attenuate downwards, rooting, white, becoming brownish T adnate to subdecurrent, pallid to yellow Flesh white
 - Solitary Edible Woods, fit Nov 3% 2 × 1½ in When young resembles 1456

- 1461 B granulatus L (from the granulate pores and stem) a b c
 - P convex, obtuse, luminous- or cinnamon-vellow, covered with claret-brown, vinous or rich sienna gluten St white-sulphur above, brownish below, scabrous with honey-coloured granules T pale sulphur to orange Po simple, exuding a thin gummy juice which dries in granules Flesh pale sulphur
 - Commonly gregarious, sometimes cuspitose able, like that of 410 Woods, fir, rare Sometimes springing from yellow mycelium

 Odour rank, heavy, disagree July-Nov 3\frac{2}{3} \times 2\frac{1}{2} \times \frac{2}{3} \times 10 \times \frac{1}{3} \times 2\frac{1}{3} \times \frac{2}{3} \times 2\frac{1}{3} \times \frac{2}{3} \times 10 \times \frac{1}{3} \times \frac{1}{3} \times 10 \times \frac{1}{3} \times \frac{1}{3}
- 1462 B tenuipes Mass (from the slender stem, tener, slender,
 - pes, a foot) a b P convex-o-pulvinate, smooth, becoming minutely fibrillose, slightly to very viscid, red- or rose-purplish over yellow, or red-buff, shaded Indian red St attenuate downwards, somewhat striate above, slightly to very viscid, yellow, vinous in mid, becoming rufescent, or pale yellow above to gradually vinous below T large, angular, bright yellow Flesh pale vinous under pellicle, white in mid, pale buff-vinous in St

Taste mild Woods Oct 13 × 23 × 3 in

- 1463 B bovinus L (from the buff-reddish colour of the pileus, as of the ox, bos) a b c
 - P convex to expanded, buff, rose-buff or orange-buff, membrane of P, involute and overlapping the tubes St equal, even, ochre-rose or pale buff, rhubarb tinted at base T decurrent, ochre, olive-ochre or rose- or yellow-butt Po compound Flesh pale buff, sometimes changing to cobalt
 - Gregarious, subcespitose Taste mild, odour pleasant Woods, chiefly pine, uncommon Sept-Vov $4\frac{1}{2} \times 2\frac{3}{4} \times \frac{1}{2}$ in
- 1463a B pusio Howse ex B & Br (from its small size, pusio, a little boy) a
 - P hemispherical, pulvinate, pulverulent, reddish-buff St slightly thickened downwards, plicate, pulverulent, dull yellowish-white, white above, becoming blackish T dull sulphur-white
- 1464 B badius Fr (from the colour, badius, bay-brown) a b c P pulvinate to flat, villoso-viscid, claret-brown, umber or dark
 - Indian-red-brown St equal or subclavate, prumate, minutely granular, lighter than P and streaky T adnate to slightly sinuate, whitish dull olive Po angular Flish rose under pellicle of P, cobalt over T
 - Single or cæspitose Woods, chiefly pine, frequent Aug-Nov 5 × 4 × 1 1 m
- 1465 B paludosus Mass (from growing in bogs, paludes) a b P convex to flat, glabrous, dark burnt-sienna or vinous redsienna, mid darker, paler when dry St attenuate downwards. smooth, paler than P, or burnt-sienna with crimson, or dull

dark sienna T adnate to subdecurrent, yellow to olive-green or whitish-green Po large, angular, compound Flesh unchanging, salmon-white

Gregarious, not crespitose Bogs, amongst Sphagnum Sept $4\frac{1}{4} \times 5 \times \frac{1}{2}$ in Kesembles a slender 1464, but flesh does not change colour

- 1466 B rutilus Fr (from the reddish pileus, rutilus, golden-red) a P pulvinate, glabrous, brownish-red or umber, not dark St equal, glabrous sulphur above, pale claret-brown below T sinurito-adnate, sulphur Po minute
 - Woods, oak Oct $I_g^g \times I_g^g \times \frac{1}{4}$ in Must not be confounded with 1472 or 1474
- 1467 B aurantiporus Howse ex Cooke (from the golden-yellow pores, aurantius, orange) a b
 - P convex, expanded, sometimes umbonate, ferruginous, orange-sienna, claret brown or buff St equal, orange above, with large purple-crimson reticulations, sulphur and pale yellow below T deeply decurrent, yellow to bright orange, becoming brownish when bruised Po broad angular Flesh usually pale rose, sometimes pale yellowish, changing to pale orange-red Under or near trees, vews $\frac{4\pi 10\pi}{3} = \frac{34 \times 34 \times 3}{1}$ in Howse considered this plant to be alhed to 1489
- 1468 B piperatus Bull (from the pepper) taste piper, pepper) ab c P pulvinnte to expanded dull ochreous-orange or yellow-ochre St equal or attenuate downwards sienna-orange T decurrent, sienna with ochre and vermilion, or rich sienna-scarlet Flesh deep sulphur, orange in stem
 - Sometimes cuspitose Poisonous Taste very acrid Woods, mixed, under limes, frequent Aug.—Nov. 2½ × 2× ½ in Often small Springing from vellow invoclum

b Subtomentosæ

- 1469 B variegatus Swartz (from the different colours of stem, pileus and tubes) a b c
 - P pulvinate, yellowish-sienna or yellowish-brown, clouded sienna or vinous, margettended bevond T, inrolled Stequal, bright yellow to dull ochre, shaded orange, burnt-sienna or vinous T yellow, or orange- or olive brown, not dark Pe minute Flish vellowish, changing sparingly or wholly to blue, sometimes unchanging
 - Tasteless, odour unpleasant Woods, chiefly pine, heaths, frequent July-Nov $5\frac{1}{8} \times 2\frac{1}{8} \times 1\frac{1}{8}$ in
- 1470 B sulphureus Fr (from the sulphur-colour) a b c Wholly sulphur-colour
 - P hemispherical to expanded-obtuse St ventricose, with rooting red base T idnato-decurrent, at length greenish P_{θ} minute, compound Flish becoming blue
 - Caspitose, sometimes in clusters of fifty or more Tasteless Sawdust, stumps Sept-Nov $4 \times 2\frac{1}{8} \times 1\frac{1}{8}$ in Sometimes changing to reddish

where touched Mycelium woolly, matting sawdust, sulphur Pileus some times 9 in in diam

- 1471. B striæpes Secr (from the striate stem, stria, a line,
 - pcs, a foot) a b

 P pulvinate to expanded, orange-buff, shaded umber, marg paler or whitish St slightly ventricose, velvety, sulphur-white above, umber below, broadly striate with small brown dots T yellow, vellow-greenish, sulphur or apricot-sulphur Po minute Flesh white, or faintly shaded pale yellowish or brownish, sparingly changing to blue

Woods, rare Oct 2 d × 2 × 1 in

- 1472 B chrysenteron With (from the golden-yellow flesh Gr chrusos, gold, cntera, inward parts) a b c
 - P convex to plane or slightly depressed, yellowish, umber or crimson-brownish over tan, often cracked, interstices crimson-red St equal, fibroso-striate, tan-white or bufi, speckled crimson or sulphur above, spotted and streaked below, base umber T sulphur to yellow-olive Po somewhat large, angular Fksh yellow-white, pale rose under pellicle of P, pale blue near T
 - Edible Woods, mixed, beech, hedges, open ground common luly-Nov $3\frac{1}{2} \times 2\frac{1}{6} \times \frac{1}{2}$ in Var nanus Mass P olive W yellow above, crimson below Fish changing to red when cut P 1 in in diam
- 1473 **B** sanguineus With (from the biood-red pileus sanguis blood) a b
 - P pulvinate, dry, almost velvety St equal rose above, sometimes reticulated crimson, tan or orange below, clouded crimson T adnate to subdecurrent, dull ochre to bright or olive-yellow Flesh yellowish-white, changing to blue
 - Woods , rare July–Sept $4\times3\frac{7}{4}\times\frac{7}{6}$ in Pileus sometimes 9 in in diam , sometimes very small
- 1474 B subtomentosus L (from the somewhat tomentose pileus)
 - P pulvinato-expanded, umber or yellowish-umber, sometimes with a red line at marg, often cracked, interstices yellow St equal, ribbed-sulcate, slightly scabrous, bright yellow, sometimes clouded crimson T rounded-adnate, bright yellow, shaded pale olive-umber Po large, angular Flish whitish-yellow, sparingly changing to blue
 - Woods, mixed, oak, beech, sometimes from interior of beech-nuts, common July-Nov $3\frac{3}{4} \times \frac{3}{4} \times \frac{7}{8}$ in Pileus sometimes $7\frac{1}{2}$ in in diam \ar radicans Mass P olive oothe 5t fusiform, colour as P T colour as P Taste insipid to bitter
- 1475 B spadieeus Fr (from the date-brown colour of the pileus, spadix, a palm branch) a b
 - P pulvinate, rich yellowish-sienna, clouded red-brown or vinous St equal to clavate, flocculoso-furfuraceous, whitish- or pale luminous-yellow, olive-shaded above, clouded umber and

vinous below T sinuato-adnate, pale yellow-olive, shåded greenish Po minute, somewhat round Flesh pale sulphur or buff-white, with a faint blue line over T

Inste insipid or pleasant, with a peculiar lasting acid flavour Woods, mixed July-Nov $4\frac{7}{8} \times 2\frac{3}{4} \times 1\frac{4}{9}$ in

1476 B radicans Pers (from the rooting stem, radix, a root) a b P pulvinate, vellowish-umber to umber or olive membrane of P overlapping Γ and involute V usurilly attenuate downwards, pale primrose to apricot-vellow and dark ochre, pruinate, rose and sienna clouded where touched T adnate, colour as St. Po unequal, large Flish vellowish white, sometimes changing to pale blue or slate

Taste somewhat bitter Woods Sept. $3^4 \times 2^4_4 \times 3$ in Often confused with 1472

1477 B rubinus W G Sm (from the ruby-coloured tubes) a b c P pulvinate to flat, whitish orange-umber or vellow-fuscous St equal or slightly attenuate downwards, yellow clouded erimson T adnato-decurrent, carmine Po compound Flish unchanging, vivid vellow

Taste mild Woods, roadsides under trees, oak, beech Aug-Sept $2\frac{3}{4} \times 1\frac{1}{4} \times \frac{3}{4}$ in

. Subpruinosa

1478 B versicolor Rostk (from the change of colour in the flash) a b
P pulvinate to convexo-plane bright deep crimson-purple
St slightly prumose smooth, colour as P or orange-brown, lighter above and below, sometimes sulphur above T adnatorounded orange Po large, angular Flesh whitish yellow, changing to cobalt and vinous

Said to be edible Taste slightly disagreeable or none odour strong and rank, like 2086 Woods beech, gardens \u03c4ug-Sept \u2\frac{1}{2} \times \u03c4 \u03c4 in

1479 B pruinatus Fr (from the pruinose pileus) a b

P convex to flattish, rigid, vellowish vinous-umber St somewhat ventricose or clavate even, smooth, vellow, finely lined with crimson T vellow Po minute, round Flesh whitish, sparingly changing to blue

Grassy places Autumn 25 × 2 × 3 in

1480 B purpurascens Rostk (from the purple pileus and stem) a P convex to plane, dry, glabrous, deep brownish-purple or deep purple-crimson S attenuate downwards, rooting, even, glabrous colour as P, sometimes yellowish above and below T dull yellow Po minute Flish dull grey or yellowish, streaked or marbled

Woods, pine Autumn 31 × 2 × 1 in

1481 B parasitious Bull (from the parasitic habit) a b c

P obtuse, plane, silky to smooth, yellow.sh-brown St slightly attenuate downwards, colour as P, or lighter, with pale vinous-sienna streaks T adnate to subdecurrent, colour as St,

sienna-shaded *Po* compound *Flesh* yellowish-white or pale vinous, orange-brownish at base of St

Parasitic on 2086 and 2087 Often overlooked, as the colour of P agrees with that of the peridium of host Sept –Oct $2\frac{1}{4} \times 2 \times \frac{1}{2}$ in

d Calopodes

- **1482 B appendiculatus** Schæff (from the membrane of the pileus overlapping at the margin) q
 - P pulvinate, expanded to plane, pubescent, crimson, bay-brown rose, indian-red or vinous-buff St subventricose, somewhat rooting, yellowish-white, buff below, sometimes crimson in middle T adnate, sulphur-greenish, clouded pale indigo where touched Po minute, ungular Flish pale sulphur, becoming pale blue

Edible Woods, uncommon Oct 41 × 32 × 1 in

- 1483 B variecolor B & Br (from the varied colours) a b
- P pulvinate, subtomentose, olivaceous marg involute St clavato-bulbous, pubescent and rufescent above yellowish downwards T rounded-free, yellow Po minute Ilish pale yellowish, marbled, dark purple under membrane of P

Woods, uncommon Aug-Sept 15 × 28 × 1 in

- 1484 B calopus Pers (from the beautiful stem Gr λalos, beautiful, pous, a foot) a b c
 - P globose to pulvinate, subtomentose umber, rosv-umber or olive-umber St ventricose or nearly equal, somewhat rooting, reticulate and carmine above, dark umber below, or wholly crimson or yellow above, crimson in middle, yellow and brown at base T rounded-adnate, whitish-orange Po minute, angular Flesh white, changing to bright blue, or variegated blue, green, carmine and umber, crimson at base

Taste bitter Woods, mixed, frequent July-Nov 41 x 24 x 11 in

- 1485 B olivaceus Schæff (from the olive-coloured pileus) a b
 - P convex, even, becoming smooth, yellowish olive-umber to olive. St subclavate, salmon sometimes white at apex, yellow-brown below, with salmon-pink or rose granular streakings or reticulations. T adnate, greenish-yellow. Po minute, unequal. Flesh salmon-umber-whitish, sometimes changing to blue.

Almost tasteless, odour somewhat strong and disagreeable Woods, beech, uncommon Aug-Sept 24 × 2 × 4 in

- 1486 B regius Kromb (from the regal aspect) a b
 - P globose to pulvinate, minutely tomentose, bright rose, pale purple, pale claret, buff or vinous-yellow-umber St subventricose to almost equal, pale or bright yellow, dull purple, red-crimson, orange or olive at base T rounded-adnate, deep

golden-yellow Po minute Flesh yellow and pale salmon, sometimes changing to pale blue

Solitary or gregarious Edible Open places in woods Aug 5×5×12 in

1487 B crassus Mass (from the stout stem, crassus, thick) a b

P convex to expanded, irregularly waved, densely tomentose, white, then pale yellow-brown or favn colour St at first almost globose, paler than P, white-reticulate above, base almost white T free, or nearly so, white then primrose Flish white, then pale primrose or pale biscuit

laste sweet, nutty odour strong, acid Under trees in pastures, beech Aug 4 × 4 × 2½ in Compare 1490 and 1496

1488 B pachypus Fr (from the thick stem, Gr pachus, thick, pous, a foot) a b c

P pulvinate, pale warni umber, umber or yellowish-umber or biscuit-colour. St equal to clavate or bulbous, pale salmonrose above and below, rose in middle or yellow above, and umber and whitish-yellow below. T rounded-adnate, bright yellow to green. Flish whitish, pale vinous under membrane of pileus and at base of stem, changing sparingly and slowly to blue or unchanging.

laste not unpleasant Woods, chiefly pine Sept -Oct 41 x 31 x 11 in

e Edules

- 1489 B candicans Fr (from the white pileus and stem, candicans, whitish, shining-white) a b c
 - P convex, brownish or yellowish-white, or almost white St obese, clavite or bulbous, reticulate to smooth, ochre or primrose-white, pale umber below T adnato or adnexorounded, sulphui to primrose INsh ochre-white, changing to bright blue or indigo

Solitary or 2-3 connate Open places, under oaks, in company with 1499 June-Oct 5½ × 3½ × 1½ in this is be elephantinus schæft

1490 B edulis Bull (from its edible properties) a b c

P pulvinate to expanded and firt, pale umber, yellowish- or purplish-umber or tan, rarely sooty, marg usually lighter or white. St obese to clavate and equal, pale umber-white, buff-white or white above and tan below, white-reticulate above T adness-rounded, white to greenish-yellow Flish unchanging white, sometimes salmon-white under pellicle of P

Woods, especially beech, common June-Nov 8½ × 5 × 15 in The cept of French markets, the Funzo portune, Foreino Bol, portun or Ferre of Italian markets. The 'sullos" of Mart Ep in 60 Sometimes attacked by a yellow parasitic mould, Hypomyeas chrysospermus, and then not edible Var latifus Mass. St even, white There is also a wholly white var

- 1491 B æreus Bull (from the copper-coloured stem, as, copper)
 - P pulvinate, smooth, umber, somewhat olive or blackish St subclavate to equal, somewhat reticulate, pale buff or yellow

above, rosy-umber below T sulphur-primrose Po minute Flesh pale sulphur, vinous under pellicle of P

Woods Autumn 4# × 41 × 11 in

- 1492 B carnosus Rostk (from the fleshy pileus, caro, flesh) a
 - P pulvinate, smooth, crimson-brown St bright yellow above, orange below or warm brown, somewhat finely streaked red and crimson T ochre-greenish or dark yellow $P_{\ell'}$ somewhat large, angular Flesh pale ochre

Woods Autumn 4 × 21 × 11 in

- 1493 B vaccinus Fr (from the reddish colour of the pileus, vacca, a cow) a b
 - P convex, expanded, minutely tomentose, rich orange-umber, brighter at marg or deep chestnut St yellowish, reddish or brownish, not dark T adnato-rounded, white to sulphur and bright yellow Pe minute Flesh white to pale siennayellowish, vinous under pellicle of P, becoming pale bluc Woods, beech Autumn 25 × 2 × 1 in
- 1494 B Rostkovii Fr (after Friedrich Wilhelm Rostkovius) a b c
 - P convex to plano-expanded minutely tomentose ochre, orange, or dull olive-brown or rufous St attenuate downwards, obconic, warm umber, buff or pale reddish-vellow T adnate, yellow, sulphur or yellow-green Po irregular, compound Flesh buff- or vinous-white becoming reddish-brown under pellicle of P, here and there blue

Under trees, beech Aug 35 × 12 × 1 in

- 1495 B fragrans Vitt (from the pleasant odour) a
 - P pulvinate, subtomentose, yellowish rosy-umber St somewhat clavate, sometimes fusiform-rooted vellowish, pale vinousclouded below T cream-vellowish Po minute, round Flesh buff- or yellow-whitish, changing to pale blue

Single or exspitose Woods, oak Sept -Oct 5\frac{1}{5} \times 3\frac{1}{2} \times 1\frac{1}{5} in

- 1496 B impolitus Fr (from the dull colour of the pileus impolitus, unpolished) a b
 - P pulvinate, sometimes cracking into areolæ, flocculose, dull warm- or dull yellowish-umber St clavate pubescent, vellowish- or olive-white above, brown or olive-brown below T rounded-free sulphur to yellow and dull olive Po minute Flesh dull biscuit-colour sparingly changing to blue
 - Edible Taste and odour pleasant Woods, mixed rare June-Sept $5\frac{1}{2} \times 3\frac{7}{8} \times 1\frac{1}{2}$ in Pileus sometimes 9 in in diam
- 1497 B æstivalis Fr (from its time of growth astivalis, pertaining to summer) a b
 - P convex to expanded, almost white, shaded pale buff, yellowish or brownish, marg often waved St clavate, even, smooth, pale yellow or pale buff above, vinous-brown below T pale to bright yellow then sulphur-greenish Flish white to pale

yellowish, sometimes with a pale blue line over the T, sometimes vinous at base

Edible Taste and odour pleasant Woodland pastures, roadsides, field sides June-July 5½ × 3½ × 2 in Pileus sometimes I ft 2 in in diam

f Luridæ

1498 B satanas Lenz (from its fancied bad qualities) a b c

P subviscid, smooth, tan-white, shaded grey-white St carmine above, dark carmine reticulate, pale yellowish, dull brownish or crimson below T sulphur-ochre Po minute, carmine Flesh whitish, clouded rose and bright blue

Said to be poisonous, probably harmless — Taste mild — Woods, mixed, oak, woody and chalky places , rare — July-Oct — $6 \times 3\frac{1}{4} \times 2\frac{3}{4}$ in

1499 B luridus Schæff (from the lurid colours) a b c

P subviscid, tomentose, dark umber or dark olive-brown scaprous, dull ochreous-orange, speckled crimson T pale yellow Po round, dark dull crimson or dull dark red Flesh pale ochre, changing to dark dull blue, stem streaked blue and red, crimson-streaked at base

Said to be poisonous Taste pleasant, sweetish, odour not unpleasant Woods, mixed, woody places, common June-Nov 4½ × 4 × 1§ in Var erythropus Fr, smaller than type, stem within and without blood red

1500 B purpureus Fr (from the sometimes purple pileus, stem and flesh) a b

P pulvinate, subvelvety, dry, clouded dull claret-purple, and red or brown St stout, yellow, base deep claret-purple, sometimes wholly ochre, variegated v ith purple veins and dots, or redrecticulate above T adnato-rounded, yellow Po crimson Flesh vellow changing to blue, deep claret-purple, or wholly crimson in St

Taste mild Woods, oak June-Oct 43 x 32 x 13 in

TEPHROLEL CÆ

g Faresæ

1501 B larieinus Berk (from the habitat, larch plantations *larix*, larch) *a b c*

P convex, rarely umbonate, somewhat squamulose with V, viscid, olive-white, shaded paie olive, pale ochre, or pale slate-purple, marg white at first, appendiculate with V St equal, annulate, cribrose above A, pitted below, whitish, pale slate-purple above, pale sepia-streaky below, or pale claret-brown above and pale buff below, or pale claret-crimson-patchy T adnato-decurrent, nearly white, pale whitish-purple Pocompound Flish white, unchangeable

Frequent July-Sept 31 x 21 x 3 in

- 1502. B rubiginosus Fr (from the reddish-brown pileus, rubigo, rust) a b
 - P convex, pubescent to glabrous, red-brown St subclavate, wholly reticulate, whitish to pale brownish-biscuit T adnate. unequal, white Flish unchanging white

Scattered Under beeches Autumn

1503 B viscidus L (from its viscidity) a b c

P pulvinate, smooth, pale yellowish-brown or pale buff, clouded pale greenish or umber, marg sometimes appendiculate with St equal, vaguely reticulate above somewhat annulate, pale yellowish-brown, slightly streaked, somewhat specked above T adnate, pale grey then umber and sienna, shaded umber or livid

Woods, larch, rare July-Aug 5 x 24 x 1 in Intermediate forms occur between this and 1501

1504 B porphyrosporus Fr (from the purplish spores (ir per-

phiness, purple, sporos, seed) a b

P convex, minutely velvety, dark olive, vellowish umber or umber, blackish when bruised St equal, minutely punctate, brown-yellowish, shaded olive not dark T adnate brownishyellow, faintly salmon or grey brown when bruised Flesh white, becoming blue near Γ

Solitary or subcaspitose Odour strong of fish Woods, maked, open grassy places under trees Aug -Sept 5 × 48 × 11 in

h Versipelles

- 1505 B versipellis Fr (from the changeable colours of the pellicle verto, to turn, pellis, the stem) a b.
 - P pulvinate, dry, tomentose, becoming even, red-orange, rufousbrown or fuliginous marg appendiculate with the V St attenuate upwards, yellowish-white, rough with small brown scabrous sc T adnato-rounded to free or sinuate yellowishor pale brownish-white Flesh whitish becoming clouded pale
 - Edible Woods, heaths frequent July-Oct 41 x 6 x 12 in This is the "Rosetto" of Italian markets (athered for food by Italians in Epping Forest as the "Rossett '
- 1506 B scaber Bull (from the rough stem, scaber, rough) a b c
 - P pulvinate, smooth, viscid when moist, at length rugulose or rivulose, usually umber, but sometimes olive-umber, red, orange, fuliginous, cincreous-blackish or white St attenuate upwards, white or yellowish-white, striated and sprinkled with minute brownish or grey sc, sometimes imperfectly granuloso-annulate T adnato-rounded or sinuate, white or yellowish-white, becoming dingy brownish Flish whitish, changing to pale slate-colour
 - dible Woods, common June-\ov $4\frac{1}{2} \times 7\frac{1}{2} \times 1$ in Γ his is the *Porcinello* or *Albarello* of Italian markets Γ ar *inicus* Γ , white Some Edible

times attacked by a parasitic mould, Hypomyces chrysospermus, and then

1506a B rugosus Fr (from the wrinkled stem, ruga, a wrinkle) a b P pulvinate, even, glabrous, dry, marg naked, brown St somewhat hollow, costato-rugose, slightly scabrous, somewhat ventricose, almost equal, paler than P T free, ivory, with a

faintly brownish shade Po round, minute Flesh changing from white to brown or sometimes black

Autumn 28 × 41 × 15 in Sowerby s t 421 does not agree with his original drawing, and the section behind is from another drawing, not of this species

1507 B duriuseulus Schulz ex Fr (from the harsh and rough stem, duriusculus, somewhat harsh and rough) a b

P globose to pulvinate, smooth, viscid when moist, whitishtawny, dull chestnut, olivaceous, yellowish-brown or vinousumber St ventricose, attenuato-rooting, whitish or yellowish, densely brown or grey punctato-squamulose T adnexo-free, white then yellowish or yellow to olive-brownish Po bright Flish white, becoming rose-colour, coppery-red, 105y - or red-slate or violet-greyish

Flible Woods Aug -Oct 31 x 61 x 11 in

1508 B eruentus Vent (from the change of colour in the flesh to blood-red, cruor, gore) a b

P convex to plane, smooth to rugulose, brown-yellowish or olive, salmon-red or vinous where bruised St clavate. attenuate to a rooting base, longitudinally scabrous, vellowishwhite or yellow below and orange above T adnate, pale Flish pale vellowish or pale sulphur changing to rose or vinous darker at base of St

Odour fetid Under beeches Aug 31 × 34 × 11 in

1 Hyporhodia

1509 B felleus Bull (from the bitter taste fel, gall) a b c

P pulvinate to expanded or slightly depressed, at first slightly meals, then smooth, even, pale umber, clouded darker St clavate, brown-reticulate above, paler than P T long, adnate to adnexo-rounded Po angular Flesh white, more or less changing to salmon

Said to be poisonous Woods, fir, beech July-Dec 48 x 4 x 1 in

1510 B alutarius Fr (from the colour of the pileus, aluta, tanned leather) a b

P pulvinate to expanded, velvety then glabrous, umber-yellowish, not dark, clouded slightly darker St clavate, somewhat even, rugulose above, colour as P T short, sinuato-adnate, clouded Po round Flesh yellowish-white, almost unbrownish changeable

Taste watery, mild Woodland pastures rare Oct 28 × 34 × 8 in

Carrosæ

- **1511. B cyanescens** Bull (from the change of colour in the flesh to blue, *cyaneus*, dark blue) *a b c*
 - P convex, floccoso-scalt, brownish-ochre St equal to clavate, spongy-cavernous, dry, cracking, slightly annulate when young, squamose, corticate, colour as P T adnato- or adnexorounded, yellowish-white or faintly-shaded olive Flesh yellowish- or brownish-wh te, changing to blue
 - Taste none Woods, mixed, rare July-bept $3\frac{1}{4} \times 3\frac{1}{2} \times 1\frac{1}{4}$ in Whole plant dry like 1516, drying in decay, not decomposing Wholly veiled in infancy by a thick floccose cost Changes to sulphur yellow when dry
- 1512 **B eastaneus** Bull (from the colour of the pileus, *castanea*, the chestnut) a b c
 - P convex, expanded, velvety, sometimes becoming repand, yellowish-white or vinous-cream then cinnamon. St clavate, velvety, corticate cracking transversely, stuffed to hollow, colour as P T free whitish-sulphur to pale primrose, becoming clouded or spotted pale brownish. Flesh white
 - Woods, pastures under trees, amongst brambles rare Aug -Oct $3\frac{1}{2} \times 2\frac{9}{8} \times \frac{3}{4}$ in
- 1518 B fulvidus Fr (from the yellowish-brown or tawny pileus, fulvius, tawny) a b
 - P convex to plane smooth, shining, rigid, yellowish-or brownish-orange. M equal to subclavate cracking, stuffed to hollow, colour as P paler below. T free, white to sulphur yellowish. Flesh white to yellowish.

Taste sweet, nutty Under trees, oak Aug -Sept 27 x 28 x g in

SUBCENUS 2 GYRODON

(From the gyroso-toothed tubes, (3r odous, 1 tooth)

- 1514 B cæspitosus Mass (from the cæspitose habit) a
 - P hemispherical, tomentose, dry olivaceous-umber marg pale rose St solid, even, glabrous, yellow, base dull red T very short Po yellow Flish firm, yellow, changing to dark blue or bluish-black, then rutous friding to dull white, dingy-red at base Densely fasciculate, stems more or less connite at base Under trees, amongst grass Aug 2½ × 2½ × 1 in
- **1514a B** Sistotrema Fr (from the resemblance in the tubes to those of Sistotrema) a
 - P fleshy at mid, thin at marg where it is flattened above and below, glabrous, dry, rufous- or yellowish-brown St equal or slightly enlarged below, even, pallid rufous or as Γ, tinged pale brown T adnate, short, unequal, yellow-tawny or pale yellowish-sulphur Po becoming gyroso-plicate Flesh white clouded pale sulphur
 - Dry woods Autumn $2_8 \times 2_8^3 \times _8^3$ in (Boletus brachyperus Kostk) P white T pale sulphur Flesh sulphur white touched

1515 B McWeeneyi W G Sm (after Dr Edmunds McWeeney), Gyrodon rubellum McWeeney, a

P convex, even, smooth, dry, red mid purplish, marg yellowish or clouded and streaked bright crimson on a bright yellow ground St equal, smooth, even, solid, bright yellow T pale yellow Po bright yellow Flesh unchanging bright yellow

On the ground amongst moss Oct $\frac{3}{4} \times \frac{1}{4} \times \frac{3}{16}$ in

SUBGENUS 3 BOLETINUS

(Diminutive of Boletus)

1515a B cavipes Opat (from the hollow stem, cavus, hollow, pes, a foot) a

P convex, umbonate, dry, floccoso-scaly, dull yellow, yellow or pale buff St hollow, floccose and pale buff below white A, white above T decurrent, somewhat large, compound, pale sulphur Flsh white, clouded pale buff hutumm $3\frac{1}{2} \times 3\frac{3}{8} \times 9$ in

LX STROBILOMYCES Berk

(From a fancied resemblance in the pileus to a pine-cone, or strobilos, a pine cone, mukes, a fungus)

Val white, floccose, appendiculate at the margin of the pileus and forming a fugitive annulus on the stem. Pileus fleshy, tough,

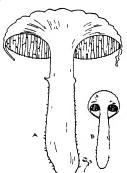


Fig. 74—Stre' dompies strol uncers Berk 4, section, showing ruptured veil 1 ditto voung example showing veil intact One third natural size

broken into scales, hymenophore continuous and homogeneous with the stem Stem solid Tubes very large, anastomosing (Fig. 74)

1516 'S strobilaceus Berk (from the top of the pileus, clad with pine-cone-like scales, Gr *strobilos*, a pine cone) a b c

332

P globose to pulvinate, broken into large thick scales, sc dark umber on a pale grevish ground. St clavate, sulcato-reticulate above, coarsely fibrillose, white above, vinous-brown below T adnate, with transverse dissepiments, white, shaded dull brownish. Flesh sienna-brown

Woods, under fir, oak, lime, amongst bracken, open grassy places Aug - Oct 0 × 7⅓ × 1⅓ m

LXI FISTULINA Bull

(From the pipe-like character of the tubes fistula, a pipe)

Vetl obsolete Pileus flesh, juicy Stem obsolete Tubes cylindrical, free from each other as are the spines in Hydnaceae, but adnate with the substance of the pileus (Fig. 75)

Growing on wood Intermediate between Polyporaca and Hydracea

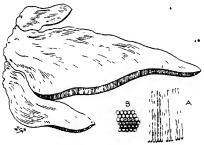


Fig 75 — Fistulina hi patic i Fr One third natural size A tubes X 1 orifices of ditto X 6

- 1517 F hepatica Fr (from the liver-like appearance Gr hepatikos, of the liver) a b c | Imbricate
 - $P_i^{\rm p}$ roundish, dimidiate or subspitulate, rough with minute points, dull pale purphished red, bloodered, hier-colour or chocolate, becoming blackish T ochre-whitish, then yellowishered Po distinct Flesh thick, juicy, red-streaked like beetroot, distilling a red juice
 - Edible when quite ripe. Taste somewhat acid. Frunks, oak, ash, walnut, willow, beech, chestnut, hornbeam, elm. Aug.—Oct. Diam. I ft. 4 in. Sometimes attaining a great size with a weight as much as 19 lbs., unlike many Polyporacce it perishes in about three weeks after its first appear ance. The "liver" or "beef steak" fingus. Said by Hartig to be the cruse of a deep red brown decomposition in ord. Cerromyces (Phychogaster) hipaticus is said by Saccardo to be an imperfect state of this.

LXII POLYPORUS Mich

(From the many pores or mouths of the tubes of the hymenium, Gr polus, many, poros, a pore)

Pileus woody, corky or somewhat soft, not zoned, flesh thick Stem long, short or none, when present simple Hymenophore descending and forming a truma between the tubes Tubes connate

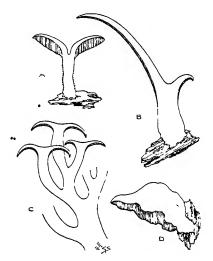


Fig. 76—Sections of a Icoposis entire Perk BP R stkorii Fr CI umberio Fr b I is Fr One hilf natural size

with the substance of the pileus and not separable from it or from each other, extended with round, angular or torn pores, not normally stratose (Fig. 76)

Persistent fungi, mostly growing on wood Odour, if any, slightly acid A few are stud to be edible Species 1517a—1575

Mesopod F Pilcus entire of excentric Stem distinct, vertical, central, simple, self-coloured, not blackish at the base

a Carnosa Pikus tragile or pliant, dull in colour, scaly or floccose, not correceous, zoneless Sports white, growing on the ground Autumnal Edible 1517a, 1518

*3 Lentæ Pıleus fleshy-plant, then corraceous, zoneless Spores white Growing on trunks Persistent

Pileus lustrous, scaly or villous Pileus even, smooth

1519, 1520 1521, 1522

- c Sponguosa Puleus spongy-soft, hygrophanous, tomentose, then corky or coriaceous, regular, irregular lobed or dimidiate Stem short, irregular Pores irregular, changing colour Spores white Mostly terrestrial, lasting through the winter in a dead state, not perennial 1523, 1524.
- d Subcornaceae Puleus at first indunated, and when full grown corky or cornaceous, tomentose, velvety Stem definite, rarely lateral Ports at first sprinkled over with a white bloom Substance ferruginous Terrestrial or on trunks, more regular, rigid and persistent than Spongrosse Not reviving 1524a—1526
- PLEUROPOD E *Pileus* plant or corky, horizontal, not circular *Stem* simple, lateral or excentric, black at the base Growing on wood
 - a Lentæ Pulcus fleshy-phant, zoncless Stem excentric,
 blackish at the base Tubes short Substance somewhat fibrous, pallid
 1527—1584
 - b Subcresolignosa Plans thick hard zoneless Stem stout, vertical, of the same colour at the base Tubes clongated 1535
- MERISMATA With many branching stems proceeding from a common trunk, each as a rule bearing a pileus or pileolus. The largest of fungi are found in this group.
 - a Carnosa Tufts central, stipitate, springing from a common more or less concrete base Pilan flesh, firm flocoso fibrous, zoneless, not coriaceo-indurate Tubes separating from the pileus Spores white Partly terrestrial Autumnal Edible
 - b Lentae From the tough pileus Iufts lateral, substipitate, in many imbriette layers Pileus fleshy-pliant, then subconaceous, fragile when old, more or less coned, fibrous within Stems more or less connate, or growing from a common tuberous base. Growing at the base of trunks Spores white Autumnal, not lasting till the following spring Not edible 1540—1542
 - c Cascosæ Tufts sessile on the stems of trees, commonly dimidiate, but in horizontal positions, central and expanded on all sides Springing from a tubercular base into numerous pileoh Pileus cheesy, at first soft and juicy, then and, without a pellicle, zoneless Tubes separating Growing in spring and summer, soon decaying Acid

- d Suberosæ Tufts somewhat sessile, lateral or central *Pilat or Pileolt corky or cornaceous, persistent, tough, free at the base, not effused Substance floccose, somewhat soft, suitable for tinder Tubes adnate On trunks close to the ground Not edible 1547, 1548
- APOD# Pileus sessile, adnate by a thickened, dilated base, dimidiate or entire, ittached behind, commonly by an umbo, more rarely attenuate and sessile On wood Polymorphous 1549—1575
 - a Anodermaa Fileus somewhat fleshy, without a cuticle, the surface broken into flocci or fibres, zoncless, the substance transversely oned within and more or less fibrous Annual, not reviving
 - Pilius cheesy, at first watery-soft, fragile, flocculose, not bristlyhispid when fully grown soft to hard but soon putrefying, not lasting through the winter Tubes white

Pores round, entire, obtuse, without small teeth Not becoming hard 1549—1558

Pores elongate, flexuous, acute and torn 1554—1559
Pileus tough, fleshy-pliant, soft, elastic, villoso-tomentose
Tubes somewhat adnate, coloured Lasting till the following
Toring

Substance coloured 1560—1562 Substance white or slightly brownish 1563—1568

At first moist, spongy, when dry firm, elastic usually bristlyhisped, internally fibrous Autumnal, annual. The finest examples growing on living trunks. Must not be confounded with the section Stuppesse of Polystictus, where the members are dry and rigid.

Substance coloured 1569, 1570 Substance and spores white 1571, 1572

b Placodermea Pileus clothed with a continuous crust, zoneless or concentrically sulcate Persistent

Substance coloured Spores white 1574, 1575

MESOPOD E

a Carnosa

1517a P flavovirens Berk & Rav (from the yellowish-green colour of the pileus, flavus, light yellow, vireo, to be green) a

P soft, pulvinate or depressed, irregularly lobed, subtomentose, dull yellowish-green, yellowish-olive or olive St slightly attenuate downwards, pallid, paler than P, or shaded white and yellowish T slightly to very decurrent, short, irregular,

 toothed, at length torn as in Irpex, white, yellow, then greenish Flesh white, clouded pale sulphur

Woods, mixed, under Pinus sylvestris Sept 31 x 21 x 11 in

1518 P leucomelas Fr (from the colours, Gr hukos, white, melas, black) a

P expanded, thick, subfragile, slightly silky squamulose, dark ohver-umber or blackish fuliginous SV equal to unequal, subtomentose, yellow-umber or as P decurrent Pv large, short, unequal white to cinereous, black when dry Flesh white, changing to faintest rufous-purplish or black

Woods, fir Sept 51 x x x x in

b Lenta

- 1519 P lentus Berk (from the tough-pliant substance lentus, tough)

 a b c
 - P umbilicate, thin, minutely scalt, buff-white, shaded buff, ochreous or reddish-brown St equal, hispid or furfur ceous, colour as P, shaded sicnna-buff T decurrent, long large, unequal, yellowish white Po toothed

Dead roots and branches, furze hawthorn, frequent April – Sept $\mathbf{z}\times\mathbf{1}\times\frac{1}{4}$ in

1520 P brumalis Fr (from the time of growth bruma, winter) a be P convevo expanded, very thin, villous to squirmulose and smooth, rich cinnamon to umber or slate umber marg paler St equal, minutely dark umber floccose on a pale brown ground, when young brown ochre above, ochre below T decurrent, very shallow, white, becoming vellow Per toothed Flesh white

Woods, on dead branches, sticks, hazel, birch, beech, sometimes on the ground , frequent $-2\times 2\frac{1}{2}\times 3^8_0$ in

1520a P arcularius Fr (*arcularius*, a casket maker in reference to the fulvous pores, covered by the pileus—as if in a casket) *a P* pliant, then coriaceous, somewhat umbilicate, zoneless, orange

brown, in the first year covered with fuscous sq, in the second glabrous with a yellow strigose margin St somewhat squamulose greyish-fuscous or sooty-brown T oblong Po rhomboidal, thin, rather large, entire, whitish then fulvous Flesh white

Dead twigs Sept Varying from $\frac{2}{3} \times \frac{1}{3} \times \frac{1}{3}$ in to $2\frac{7}{6} \times 1\frac{1}{3} \times \frac{1}{4}$ in Distinguished from 1520 by the shape of the pores, the strigose margin and fuscous squamules of the pileus

1521 P fuscidulus Fr (from the somewhat fuscous pilcus) a

P convexo-plane, very thin, leathery, pale yellowish-brown or pale olive-brown St equal, smooth, pale yellowish olive T adnato-decurrent, somewhat long, warm yellowish-white

Woods, chips, rare 21 × 14 × 1 in

1522 P leptocephalus Fr (from the thin pileus, Gr leptos, thin, kephale, the head) a b c

P convexo plane, slightly depressed or subumbilicite, thin, leathery, pale yellowish buff or shining yellowish St smooth, colour as P, sometimes black at base T adnate Pominute, colour as P or whitish Flesh white

Woods, on trunks, dead birch, rare Oct - War $2\frac{1}{2} \times 1\frac{3}{8} \times \frac{3}{18}$ in

c Spongrosie

1523 P Schweinitzii Fr (after Ludwig David von Schweinitz) a b. P expanded, rugged uneven, strigoso-tomentose, thick, deep orange-sienna to sienna-umber, irregularly zoned brown, mid almost black. St rugged uneven or obsolete, sulphur, umber clouded below, dark umber at base. T decurrent, large.

almost black St rugged uneven or obsolete, sulphur, umber clouded below, dark umber at base T decurrent, large, sulphur to green-brownish sulphur P_{θ} torn Flesh deep sienna

Woods about roots fir, pine, larch July-Oct $6\frac{1}{2} \times 1\frac{3}{2} \times 1\frac{3}{2}$ in Hartig states that this fungus has an effect on living wood similar to that of the "Dry Rot" 1680

1524 P rufescens Fr (from the rufescent colour) a b c

P depressed to infundibuliform, somewhat thin, strigose, pale vinous-umber mid darker marg irregular St equal, uneven sometimes lateral or absent, colour as P darker and clouded below T decurrent, pale yellowish-vinous-umber P_{θ} torn Flesh colour as P

On and about stumps, ash, elm Sept-Jan $5 \times 2\frac{1}{8} \times 1$ in Sometimes wholly biscuit buff

d Subcornaue

1524a P tomentosus Fr (from the minutely velvety pileus tomentum, wool) a c

P plane, corky, becoming hard, often lobed and irregular, trwny marg thin, strught, sometimes yellowish St solid, attenuate upwards, sometimes a mere base or central point, sometimes rooting, steel grey T subdecurrent, short Po very minute, entire pale- or grevish-yellow, at first delicately whitish prumose Fish pale tawny

On the ground $2 \times \frac{7}{8} - \frac{1}{4}$ in This with 1524b, 1525 and 1526 have been placed by Cooke, Saccardo and Massee in *Polystictus*

1524b P Montagnei Fr (after J F C Montagne) a

P cyathiform, irregular, zoneless, uneven, ferruginous, becoming smooth, marg thin S^t unequal, pubescent, colour as P T short P^o large, round, edge entire, yellowish-white, then ferruginous Flesh tawny-cinnamon

Distinguished from 1525 by the zoneless pileus and large entire pores. Autumn $1\frac{1}{2} \times 1\frac{1}{4} \times \frac{3}{8}$ in

- 1525 P perennis Fr (from its perennial habit) a b c
 - P plano-infundibuliform, velvety to smooth, thin, pale yellowish-brown, zoned darker, marg fimbriate St uneven, attenuate upwards, velvety, vinous-umber, pale sienna below T decurrent, short, pale umber Po small, torn, at first with a white bloom Flesh pile vinous-umber
 - On and about stumps, beech, burnt ground, frequent $July-Jan\ 2\frac{3}{8}\times I_4^2\times \frac{1}{4}$ in
- 1526 P cinnamomeus Sacc (from the cinnamon colour of the pileus)
 - P plano-depressed or subinfundibuliform, velvety to smooth, thin, leathery flaccid bright sienna cinnamon, zoned deep rich brown St usually attenuate downwards, base sometimes tuberous, colour as P T adnate to adnato-decurrent, short, brownish-cinnamon, fulvous when dry Po large Flish rich sienna-cinnamon
 - Solitary or in rows to subcuspitose. On the ground, under trees, burnt places. Oct $3\frac{1}{4} \times \frac{3}{4} \times \frac{1}{4}$ in Pileus sometimes almost jet black

PLEUROPOD Æ

a Lente

- 1527 P squamosus Fr (from the scaly pileus squama, a scale)
 - P fan-shaped, flat pale brownish, siennn-brown-scalv St yellowish-umber, black spotted, blackish at base T decurrent, short P_t toothed vellowish-white like the pores of tripe Flesh white
 - Single to ex-pitose or imbricate Odour rank. Trunks and stumps, ash, mulberry walnut, maple, wych clin, common sometimes 2 ft 6 in in dam and 34 libs in weight. April-Nov. 1 ft. 4 in X1½ X1½ in The flesh makes good razor strops, but is often larva pierced. In the British Museum collection of drawings Bolton illustrates an antier like form of this species, growing from a dark brown sclerotion base.
- 1528 P Michelii Fr (after Pier Antonio Micheli) a
 - P spathulate, slightly silky, yellowish white with darker sq. St equal, rough, white becoming fuscous at base. T decurrent, short. Po large entire, white

Somewhat cospitose Stumps, willow $2\frac{1}{4} \times \frac{1}{4} \times \frac{1}{2}$ in

- 1529 P melanopus Fr (from the black stem (r melas, black, pous, a foot) a b c
 - pous, a foot) a b c P submfundibuliform delicately flocculose to smooth, somewhat thick, pale yellowish St attenuate upwards, somewhat velvety, umber, rich brown or black T decurrent, short, white Po minute
 - Somewhat crapitose Dead wood, roots, uncommon Aug Oct $2\frac{7}{8} \times 1\frac{1}{2} \times \frac{3}{8}$ in

- 1530 P Rostkovii Fr (after Friedrich Wilhelm Gottlieb Rostkovius)

 a b c
 - P dimidiato-infundibuliform, somewhat thick, yellowish-sienna, deep umber at mid and behind St equal, reticulate, deep umber to black T decurrent, short, white to dull yellowish Po large, angular, toothed

Somewhat cæspitose Woods, on stumps, trunks, ash, rare July-Jan $4\frac{7}{8} \times 1\frac{1}{8} \times \frac{3}{4}$ in

- 1531 P pieipes Fr (from the pitch-black stem, pix, pitch, pes, a foot) a b c
 - P somewhat depressed at mid or behind, red-brown or chestnut St equal or attenuate downwards, velvety to naked T decurrent, somewhat short, whitish to yellowish Po round, small Flish white.

- 1532 P varius Fr (from its variable size, colour and form) a b c
 - P depressed at mid or behind, somewhat virgate, yellowishbrown, shalled palish vinous-umber, marg undulate St even, smooth, cinereous blackish downwards T decurrent, short, white to yellowish Po minute Flesh white
 - Single 6 subcrespitose elder, birch , frequent Aug –Feb $3\frac{3}{4} \times 1\frac{1}{4} \times \frac{6}{5}$ in
- 1533 P elegans Fr (from its elegance) a b c
 - P convex to slightly depressed, usually excentric or dimidiate, becoming woody, ochreous, orange or reddish. St even, smooth, black, abruptly pallid at apex. T adnate or slightly decurrent, yellowish-white, brownish-yellow or slightly orange Po minute.
 - Single to subcuspitose Trunks, birch, willow, beech, frequent July–Feb $2\frac{\pi}{2} \times 1\frac{\pi}{2} \times \frac{\pi}{2}$ in Var numinularius Fr Smaller than type, P almost regular I in in diam
- 1534 P petaloides Fr (from a fancied resemblance in its shape and thinness to a leaf, Gr petalon, a leaf, eidos, appearance) a b
 - thinness to a leaf, Gr petalon, a leaf, ados, appearance) a b P spathulate, thin, rugose, zoneless, dark nch chestnut St smooth, whitish, sometimes dark brown below T decurrent, somewhat short, white Po minute

Old stumps Jan 2 x 3 x 3 in

b Suberosolienosæ

- 1535 P lucidus Fr (from the shining pileus and stem, lucidus, bright) a b c
 - P fan-shaped or spathulate, sulcato-rugose, corky to woody, lustrous, deep rich blood-chestnut St lateral, irregular, uneven, lustrous, deep purple-chestnut T adnate, somewhat

long, rarely stratose, yellowish-white, clouded pale brownish Flesh tan-brownish

Single to respitose. On and about stumps, hornbeam, frequent. Oct. April $7\times6\times1^{\frac{1}{2}}$ in Sometimes sessile. Occurs in peat beds in the fens of the Eastern counties and in the lake side pile dwellings of Switzerlard and Italy. The varinshed appearance of the pileus is due to the presence of resin. This species has been placed in Former by Cooke and Saccardo

MERISMAT &

a Carnosa

1536 P umbellatus Fr (from the many stems and pileoli forming an umbel) *a*

Pt very numerous, entire, umbilicate, fibrous-fleshy, warm-umber, or vellowish-reddish- or slate-umber, rarely white 5t white to yellowish-white T short, subdecurrent, colour as St Po minute

Said to be edible Woods, near and on stumps July Mass $9\frac{7}{4} \times 9\frac{3}{4}$ in Pi $1\frac{1}{2} \times 1\frac{1}{4} \times \frac{1}{4}$ in

1537 P frondosus Fr (from the branching habit, frons, a leafy branch) a c

Pt numerous, dimidiate, rugose, convex to recurved, somewhat thin and tough, vellowish-umber to pale purple-slate St yellowish-white T decurrent, somewhat short, yellowish-white Po small

Stumps, trunks, roots, oak, rare Oct Mass 10\frac{1}{2} \times 9\frac{3}{4} in \text{P1} 3\frac{3}{4} \times 1\frac{3}{4} \times \frac{3}{4} in

1538 P intybaceus Fr (from a fancied resemblance to succory, Cuchorium Intybus) a b c

Pt numerous, dimidiate, fragile, scpia, not dark, lighter at mid St white T decurrent, very short, pale sepia

Edible I aste usually pleasant, sometimes slightly astringent when raw, odour of mice, in decay like japanner's varish Stumps, trunks, oak rare Sept-Dec Vlass 12½ × 7½ in Pt 3 × 1½ × ½ in The cauliflower like stems are the edible parts, not the pileoh The "cock of the woods" (grey grouse hen) of the Vosges and Ardennes

1539 P cristatus Fr (from the crested appearance, crista, a crest) a c

Pt numerous, dimidiate, somewhat thick, fragile, bright yellow or greenish, sometimes clouded reddish St irregular T very short, whitish Po minute, angular, torn Flesh white, becoming ochre

Woods, beech, rare Mass 72 in in diam Pi 32 in

b Lentæ

1540 P giganteus Fr (from its great size) a b c

Pt several, dimidiate, thick, umber, z darker St short, pale yellowish-white, brownish or ashy where bruised T somewhat

short Po minute, colour as St Flesh cheesy, viñous-white

Taste astringent, disagreeable odour strong, oppressive, like rotten cheese Stumps, elm, oak, beech, acacia Becoming blackish in drying July-Jan Mass I ft 3 in P i 8 ii in 1

1541 P osseus Kalch (from its colour, like bone, os) a c White, shaded grey or buff-white

Pi several, thick, convex to flat, smooth St short T decurrent, short Po minute, shallow

Odour acid Stumps, larch Oct Mass 63 in Pi 48 in

1542 P acanthoides Fr (from a fancied resemblance to Acanthus, Gr cidos, appearance) a b c

Pi numerous, dimidrate, thin, pliant, yellowish-sienna z sienna, marg paler St pale brownish Po lamelloso-sinuate, toothed, coloui as St Fhsh faintly rufous

Trunks, roots, buried wood Sept Mass 83 in Pi 42 in

c Caseosa

1543 P sulphureus Fr (from the sulphur-colour) a b c

P few, thick, juicy-cheesy, sulphur-yellowish, somewhat clouded ochreous-reddish or salmon T short Po minute, colour as P Flish thick, pale sulphur, somewhat vinous above

Imbricate Said to be edible. Taste slightly astingent somewhat acid, odour frigrant to disagreeable acid, foxy, pleasant if burnt when dry Living trees, stump, oak, vew, chestnu, willow, cherry, alder, poplar, walnut, peur, apple, larch, Aconina, ash, pine May-Oct Mass 9½ in P 7½ in Pileus covered with crystals of oxalate of lime. One of the fungi used in past times for tinder. Usually rots the middle of a tree-trunk, leaving the outside sound. Sometimes biho-phorescent. Ceriomyces (Ptychogaster) aurantiacus is said by Saccardo to be an imperfect state of this species.

1544 P imbricatus Fr (from the imbricate habit) a b c

P few to many, firmer than 1543, thin, rugose, subviscid, buff T long, pale yellowish Po lustrous Flish thin, white

Odour strong, like seed cake Trunks, oak, rare June-Nov Mass II in P 6 in

1545 P spongia Fr (from the spongy substance) a b

P few, thick to thin, often rugose, yellowish-chestnut- or umbersienna, darker at bise, z indistinct, marg sometimes sulphur or pale dull ochie. T somewhat short Po minute, torn, pale printrose, faintly reddish where bruised Fhsh pale opaque sienna

Subimbricate Trunks pine Oct-Nov Mass II in P 6 in Boletur Hisbergii Rostk is a form of this

•1

1546 'P alligatus Fr (from its binding or enveloping habit, alligo, to bind to) a b c

P many, villous, white, marg pale umber T short P_{θ} minutely labyrinthiform, colour as P Flesh biscuit-whitish

Imbricato connate Roots, etc , rure Sept Mass 5 in P $2\frac{1}{2}$ in Some times faintly shaded, vinous

d Suberosa

- 1547 P heteroelitus Fr (from its irregular, leaning habit, Gr heteros, one of two, kline, to lean) a c
 - P few or many, thin, shaggy-villous, zoneless, yellow, sienna behind, marg lobed T somewhat short Po pale primrose to golden-yellow Flesh white
- Imbricate Stumps, partly buried, oak, rare Jan Wass 7 in P 3½ in
- 1548 P salignus Fr (from a frequent habitat, sahx, willow) a b c P few to many, thin, adpressedly villous, whitish marg crested T somewhat short Po intricately flexuous, whitish Flesh white

APODÆ

a Anodermia

- 1549 P epileucus Fr (from its whitish colour, Gr cpi, upon, leukos, white) a b c
 - P few, pulvinate, villous-rugged, thick cheesy-soft, vellowish-white, clouded greyish, rarely faintly zoned T long, biscurt-primtose or brownish-white Flish buff-white
 - Subimbricate Stumps, trunks, elm, fir, willow, birch , rarc Sept -Nov Mass 88 in P 5½ in
- 1550 P alutaceus Fr (from its colour, like tanned leather, aluta) a Whitish-ochre
 - P few, tough, reniform-dilated, slightly velvety marg acute, even Po small
 - Imbricate Decayed stumps, pine, beech Sept Oct Mass 58 in P 3 in
- 1551 P pallescens Fr (from the colours becoming pale, pallesco, to grow pale) a b c
 - P few, corky, even to rugose, pale buff, marg lighter T small, pale yellowish, pale vinous towards base Plesh buff-white
- Imbricate Stumps, branches, hornbeam, rare Mass 5\frac{4}{2} in P 2\frac{1}{4} in

 1552 P chioneus Fr (from its snow-white colour, Gr chion, snow)
- a b c Pearly or biscuit white

 P few, soft, fragile, smooth, thin, zoneless or faintly zoned
 - T long, but varying in length
 - Single to 3 imbricate Taste astringent, odour acid Stumps, larch, fir, birch, uncommon June-Dec P 21 in

- 1553 P cerebrinus B & Br (from its brain-like appearance, cerebrum, the brain) a b White
 - P pulvinate, delicately tomentose, then smooth, marg crenate
 T rounded, entire, dissepiments of the large Po thick, obtuse
 Fir Aug P I in Resupinate not unlike 1657
- 1554 P lacteus Fr (from the milk-white colour lac, milk) a c
 - P 1–3 connate, gibbous, thick, flesh-fibrous, pubescent, zoneless T long Po toothed, at length laby1inthiform and torn
 - Imbricato-connite laste astringent, odour none Dead bark, leaves, laburnum birch, beech, rare Sept-Nov P 3 in
- 1555 P fragilis Fi (from its fragile substance) a b c
 - P convex to plane depressed rugosc, thick, whitish, pile foxy-red where bruised T long Po minute, intricate, colour as P
 - Single to 7 imbricate Stimps and branches pine, covering moss on pine bark, larch, uncommon Sept Nov. P 2½ in
- 1556 P mollis Fr (from its softness mollis, soft) a c
 - P effuso reflexed, rugose flesh; fibrous, pale flesh-colour, livid or brownish-breutt, sometimes slightly zoned darker marg acute, fory where bruised T long, unequal, soft, white or salmon white, fory where bruised
 - Single to 3 imbricate or connate Dead pine Sept P 22 in
- 1557 P cæsius Fr (from its bluish-grey clouding acsius, bluish-grey) a b c Ivory-white, becoming pale turquoise or bluish-grey where bruised
 - P thick, fleshy lobed, unequal, silky T long P_{θ} torm into teeth
 - Single to 3 imbricate of continted Dead fir, larch, dead fir leaves, roots, to take posts, sticks. Mar Nov. I 4\frac{1}{2} in
- 1558 P trabeus Rostk (from its frequent habitat, the wood of ships trabs, timber) a . White
 - P thick, firm, effuso-reflexed transversely elongate zoneless, pullid T short Pv minute toothed Flish hyaline when most
 - Single Wood, yew, pine Oct P 34 in Commonly confounded with 1559, from which it is distinguished by being more regular and brighter in colour
- 1559 P destructor F1 (from its destructive effect on wood) a b c Ivory-white
 - P waters fleshy, rugose, marg pale brownish Po toothed or toin
 - Connto inducate Worled wood, which is softens and destroys, stimps, branches, fir, larch, fir leves, willow, common May-Dec P 3\frac{3}{2} in Var undulatus Sacc Broadly expanded, marginite, pale foxy brown Certomyces (Prichogaster) albus (fig 77) is very commonly associated with this species and 1572 Berkeley considers Prichogaster to be an imperfect commal state of one or both of these Polypove, whilst others regard it as a parasite. It has also been made a species of Polypovus, viz. Phychogaster.

Ludw, and as such is placed after 1559 by Saccardo The plant grows on rotten fir trunks and on the ground, involving fir leaves



Fig 77—(in majes 1 to higher in the Sace A section three quarters natural size in threads and country × 27

1560 P nidulans Fr (from the nest-like shape *mdus* a nest) *a b c* Whitish-sienna and umber, or slightly orange

P single, pulvinate, villous, zoneless, thick, soft 7 long, unequal, angular

Single, usually in small troops Friegrant when dry Dead wood, branches, wych elm, uncommon Jan -Dec Pin At first resupincte and from 3 to 7 in in diam

1561 P rutilans Fr (from its reddish colour, rutile, to be reddish) a b c

P thin, villous to smooth, zoncless, ivory-whitish then brownish, clouded vinous 7 long Po minute equal, cinnamon or vinous Flish pale ochre, vinous towards Γ

Single to 2 imbricate or connate. Odour powerful and pleasant of anisc Logs, branches, sticks, oak, uncommon April-Dec P 14 in At first resupinate Perhaps this and 1560 are one species. Sec 1807

1562 P gilvus Fr (from its colour sultus, pale yellowish) a b c

P thick, zoneless, pale sienna-tellow or sienna-umber marg velvety, becoming smooth, lighter than P or dull orange Pe minute with bairen patches daik orange-brown marg barren Flesh bright orange-brown

Single to 3 imbricate or connate Trunks, willow, oak, rare Inn P \(\frac{1}{2} \) in \(\frac{1}{2} \) Boletus impuber Sow t 195 \(\text{ At first effuso resupinate} \)

1563 P fumosus (from its smoky colour fumosus, smoky) a b c

P firm, zoneless, somewhat thin, silky to smooth, pale buff, pale biscuit or slate-umber, sometimes shaded vinous T whitish to ivory-umber, or smoky-livid, with a smoky tinge, darker where bruised, often with barren patches Po round, entire Flesh very pale buff or brownish

2-16 imbricate and connate Stumps logs, poplar, willow, birch, horse chestnut, common July-Feb P 2 in Mr Criteton Rea livs met with a very large example on a wooden grass roller

1563a P fragrans Peck (from the fragrance)

P fleshy, effuso reflexed, imbricate, sometimes thickened at the base, velvety, with minute tomentum, pale reddish-grey or alutaceous, marg thin T₁¹ in long Po minute, unequal, angular, whitish, becoming darker with age, blackish where bruised Firsh slightly fibrous zoned, concolorous

Stumps, elm 4 x 2 m ()ften mistaken for 1563, but distinguished by the sweet odour

1564 P adustus Fr (from its scorched appearance aduro, to burn) a b c

P somewhat thin, buff ivory, with 4-6 darker 7, marg becoming blackish T somewhat short Po minute, warm ivory-brown, becoming rigged and tinted slate-colour Flish whitish to buff-ivory

Single to 8 imbricate Stumps older, old, willow, birch poplar hornbeam, dead leaves, frequent [an -Dec P 2] in

1565 P erispus Fr (from the crisped margin of the pileus) a c

P rugose, tuberculose behind, thin, tvory-buff, brownish behind, marg umber white T somewhat short Po large unequal, labyrinthiform slate-whitish or brown-white marg barren FR36 buff-white

About 4–9 connute Old sumps , uncommon Mw-jun M as $3\frac{1}{4}$ in P in 1

1566 P amorphus I₁ (from its shapelessness Gr a, without, morphe, form) a b ε

P thin silky, somewhat tuberculose behind, orange to white T somewhat short Po unequal, pale orange-vermilion or pale ivory-vermilion marg burren

Multi imbricite Stumps, leaves fir uncommon Sept-Mai Mass 3 in P in Cooke refers 1822 to this, but the spores are different in shape and size. Often in pair resupinate. Coronize (Ptychogarter) estimates said by Saccardo to be an imperfect state of this

1567 P adiposus B & Bi (from its fat-like substance adops, fat) a c P effused, wax-soft, shorth reflexed, thin, obscurely tomentose, bright red-brown T short Pe small, salmon marg salmonorange

On the ground near stumps, on mosses, Marchantia uncommon Dec Mass 1½ in P½ in

1568 P Keithii B & Br (after the Rev Dr James Keith) a b

P bell-shaped, decurrent behind, rough with rigid, tooth-like processes, bright red-brown Po pullid deep vinous when dry, dissepiments lacerate

Single to 2 imbricate Sticks maked wood P 1 in

1569 P hispidus Fr (from the hispid pileus) a b i

P thick, dimidiate, pulvinate, hispid, rich red-biown, marg sienna-ivory. T long. Po minute, ivory to pale brown-ochre Flesh juicy, tender, clastic, spongy, dull orange to sienna.

Single to 3 imbricate Living trunks, pine, ash, larch apple, mulberry,

- walnut, lime, oak, clim, Euonymus, common May-Feb P 10½ in Close to the baik of the tree the pubescence often resembles Ozomum anicomum see 237 Sometimes 18 in in dam Becomes dense and fibrous in age Tubes sometimes distilling drops of water, becoming wholly black in age.
- **1570 P euticularis** Fr (from its thinness, skin-like, as compared with **1569**, *cuticula* 2 thin external skin) *a b c*
 - P thin, subrugose, hairy or tomentose, obscurely zoned, yellowbuff to deep vinous-brown T somewhat long Po minute, vinous- or orange-brown, not dark Flish vinous-brown, not dark
 - Single to 3 imbricate. Trunks, beech, fir Nov-Dec l' 54 in bearing the same relationship to 1569 as 1544 does to 1543
- 1571 P spumeus Fr (from its carly condition of frothy-softness, spuma, froth) Ivory- or ochre-white
 - P pulvinate, gibbous, somewhat thick, rugoso-hispid to plane T somewhat short Pv minute
 - Single to 3 imbricate. Trunks and stumps, hornbeam, elm, apple ash, willow, beech, birch, oak. July-Oct. P 71 in
- 1572 P borealis Fr (from its being common in northern littlides, borealis, northern) a c White to yellowish-buff
 - P subpulvinate, hairy, somewhat thick, fibrous Po small, sinuoso-flexuous, torn marg barren
 - Sincle to 3 imbricate Stumps, pine, fir, spine. Septor P 33 in Hartin states that this fungus is the close of white rot in spruce berkeley considers that Cerrompics (Ptycholaster) albus may be an imperfect state of this species or of 1559

b Placodermee

- 1573 P dryadeus Fr (from its habitat, oak, Gr dius) a b c
 - P pulvinate, thick, rugged to smooth, somewhat furuginous, becoming fuscous I long, pale ferruginous Flesh vinous-sienna, not dark, streaked and zoned darker
 - Single to 2 imbricate lasts somewhat acid or astringent lrunks, oak, beech, frequent July-Oct P 9 in Fxuding drops all over, which become black in drying
- 1574 P betulinus Fr (from its habitat, birch, betula) a b c
 - P hoof-shaped, zoneless, smooth, thick, the vertex in the form of an um or short stem, pellicle thin, cracking, pale umberwhitish, becoming darker T very short Po minute, white
 - Trunks, branches, birch, common May-Jun P 8 in Porcs sometimes stained by Hypomyees rosellus and Hypoerae orbicaeau Used by rustics in past times for rizor strops Said by Hurtig to cause the "red rot " of birch
- 1574a P benzoinus Fr (from its odour of benzoin) a
 - P woody, conchiform, but constricted at the base, fuscousrubigmous, somewhat zoned, rugose when dry, and becoming darker T long Po at first whitish, then ferruginous Flesh yellowish-white
 - Subimbricate Fallen cedars Jan P 7 in Sweet scented, odour retained in drying Allied to Trametes

1575 P quereinus Fr (from its habitat oak, quercus) a b c P pulvinate, very thick, soft to hard, ivory- or sulphur-whitish, clouded and margined reddish T short, minute, whitish, clouded as P \tilde{F} lish ivory-white, zoned orange-red and pale

sulphui

Single to 3 imbricate. Taste intensely bitter. Old oaks, oak logs often in company with 1517, which it somewhat resembles May-Dec Mass 6 in P 34 in Often barren sometimes i ft in diam

LXIII FOMES Karst

(From the use in kindling fire in past times, fomes, touch-wood, tinder)

Pileus hard and woods from the first texture consisting of interwoven hyphre, covered with a hard rigid crustaceous cuticle zone-

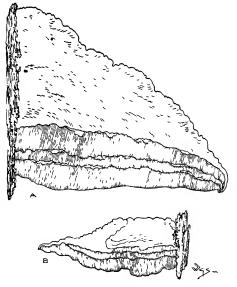


Fig. 75 - v section of Fomes fomentarius Karst. B ditto F annosus Cooke One half natural size

less but often concentrically sulcate, perennial, forming successive strata (Fig 78)

• a Fomentariæ Pileus pulvinate, juiceless, not fleshy or spongy, floccose, covered with a hard, horny crust Tubes stratose after the first year Perennial, lasting for twenty years or more, adding new strata annually Growing on wood

Substance of tubes umber or fuscous 1576
Substance of tubes somewhat ferruginous 1577—1585
Substance white or pallid 1586—1589

b Lignosie Pilens hard woody, juiceless, covered with a thin, somewhat lustrous crust smooth or becoming so, somewhat effused at the base Flatter than Femintaria or effusored. 1590—1594.

a Fementaria

1576 F vegetus Karst (from its vigorous growth, regetus) a c

P concentrically and iadiato-corrugate or rugose, deep oliveslate, dark brown behind marg sometimes brown T somewhat long, single to 5-stratose Po minute, ivory-brownish, surface brown-white, marg barren Flish thin floccoso-lax, yellow-brown or vinous waim-brown

Single to 3 imbricate Trunks, lime, clm, rare P 74 in diam Polyporus Stevenu Leveill, according to bresadola

1577 F applanatus Karst (from its flattened shape * plane, to level) a b c

P flattened, tuberculose, viguely rugged-sulcate-zoned smooth, cuttele crustaceous fragle somewhat shining cinnimon or brown, becoming greyish with age T long, single to 6-stratose, subferruginous Pe roundish very minute, white brownish when bruised Flesh thick, floccoso-soft, rich brown

Sometimes imbricate Odour acid Trunks, ash, beech, fir, oak, birch, poplar, uncommon luly-lar Dram i ft According to Biesadola Polyforus Jucenya II and Jolyforus robumum Fi are both forms of this Much softer than 1578 Sometimes weighing 4-5 lbs

1578 F fomentarius Karst (from its former use as tinder, *fomentum*)

- P hoof-shaped, more or less triangular in section, concentrically rugged-sulcato-zoned, smooth, cuticle thick, hard, yellowish-brown-reddish, fullginous- or dingy-brown, margipaler, at first
- with a white bloom T long, single to 9-stratose, ferruginous Po subangular, white, then ferruginous or ivory-brown Flish floccoso-soft, orange-brown
 - Trunks, oak, birch, beech, lime, hornbeam, common Jan Dee Diam 8 in Formerly used as tinder in its soft natural state. Generally destreys exterior of trunl for one quarter of circumference and from base to 20 ft up Said by Hartig to cause "white rot" of beech and oak Occurs in peat beds in the eastern counties and in the like side pile dwellings of Switzerland and Italy Formerly used as a hamostatic. The ashes are used by the Ostaks and Kamtschatkans as snuff

- 1579 F nigricans Karst (from its black pileus niger, black) ac
 - P hoof-shaped or pulvinate, very thick, deeply and concentrically sulcato-zoned, cuticle very hard, shining, black, marg very obtuse, ferruginous T somewhat long, single to 13-stratose, ferruginous Po very small, obsoletely angular, dark yellowishgrey Flesh very hard, vellowish-brown
 - Living and dead birch, beech, hornbeam, uncommon May-()ct Diam 5½ in A var of 1578 according to Bresadola
- 1580 F igniarius Karst (from its former use as tinder, ignis, fire)
 - P tuberculoso-globose, immarginate, then hoof-shaped, deeply sulcato-zoned, uneven, smooth, cuticle very hard, ochre to reddish- and blackish-brown marg rounded T long, single to 9-stratose Po very small, pale tawny, at length ennamon, when old filled with white mycelium Flish very hard, zoned, ferrugmous
 - Trunks, ash poplar, willow cherry, plun plane upple, oak, fir, beech, alder, mple, birch, common Mar-Nov Drum 6½ in Formerly used as a hemostatic. The rishes are used by the Ostiaks and Kamtschatkans as snuff. Only used as under after baking boiling and beating. Hartig considers this to be a parasite. Occurs in part beds in the eastern counties and in the lake side pile dwellings of Switzerland and Italy. The form on willow has been named Polypon pomacus Pers.
- 1581 F fulvus Karst (from the tawny pileus fulaus, tawny) a b c P ventricose, hoof-shaped, triangular in section, at first villoso-hairy, then even rich tawny T short, ochre or brown-biscuit Pe minute, coloui as P Flesh woody-corky, tawny
 - Somewhat cospitose and imbricate Decayed trunks, beech, silver fir, sprice rare Oct Mar Dian 34 in Pores not always distinctly stratose According to brevidola the same as Polyporus cumamomeus Trog
- **1582 F pectinatus** Cooke (from the comb-like markings on the pileus, *pectin*, a comb) *a b c*
 - P flattened, thin, concentrically lamellato plicate and tomentososcaly, whitish-brown, salmon or deep umber-sienna T short, yellow-brown, marg barren Po very small, somewhat pale salmon-umber
 - Imbricate Trunks Group 6½ in diam P 4½ in diam A form of 1584, according to Bresadola
- 1583 F conchatus Karst (from its shape, concha, a shell) a b c
 - P flattened, thin, concentrically sulcate, somewhate corrugate, tomentose, deep vellow-brown or sienna-brown, marg acute T short to long Po very small, yellow-orange or brownish, sometimes olive-shaded Flesh thin, hard, corky, yellowish-brown
 - Imbricate Trunks, willow, beech, frequent Feb -Oct Group 4½ in diam P 2½ in diam Often wholly resupinate A form of 1685 according to Brestolola

- 1588a F Euonymi W G Sm, Polyporus Eucnymi Kalchb (from its host plant, Euonymus curopæus) a c
 - P fleshy, rugose, cunnamon, darker with age, salmon at the marg, edge white T short, minute cunnamon Po minute, salmon or whitish-cunnamon Flish cunnamon
 - Mass $3^3_4 \times 3^4_4$ in , projection 2 ins. Tubes sometimes multi-stratose, with flesh of pileus reduced to $\frac{1}{16}$ in thick. Closely allied to F. Lenter a
- **1584 F Ribis** Cooke (from its habitat, currant and gooseberry bushes, *ribes*, currant) *a b c*
 - P thick, somewhat sulcato-zoned, effused amongst branches, somewhat even, indistinctly zoned, velvety, orange or brown-sienna, becoming slate-brown behind T short, colour as flesh Po very small vellow-sienna becoming sepia-cinnamon Flish corky-coraceous to soft brownish sienna-orange
 - Connato imbrierte Perinnial Common April-Iuly Group 3# in diam P 2# in diam Substance suitable for tinder. The same as 1582 and 1583a according to Breadola
- 1585 F salieinus Knist (from its habitat willow, salia) a c
 - P undulate, whitish-brown vellowish-brown or black, 3–8 zoned, dark-umber T deep umber-sienna Po very small, ferruginous-cinnamon marg barren Flish woody, very hard, whitish- or vellowish-brown
 - Cespitoso imbricate for the most part or wholly resupinate. Common Group 3½ in in diam. P 1½ in dram. A form of 1583 according to Bresidola. Ceriom i (Pt. ho, aster) sponz a is said by Saccardo to be an imperfect state of this.
- 1586 F roseus Cooke (from its iose coloui) a b c
 - P thin, somewhat flattened even subrugose shining dull rose or rose-red, dark zoned marg dark T somewhat long, marg barren Po minute, colour as P Flish corky-woody, floccoso-fibrous, colour as P or paler
 - Imbricite, cuspitose Stump apple dressed wood Oct P $\mathbf{2}_{2}^{4}$ in diam Colour permanent in drying The same as F superallidus and $\mathbf{1592}$ according to Bresadola
- 1587 F ulmarius Cooke (from its habitat elm, ulmus) a b c
 - P thick, convex, tubercular uneven, becoming smooth, white to leather-buff, blackish in old examples marg white, becoming tawny T single to 6-stratose, ivoix, bright salmon or buff-vinous, brown in decay Flish corky-woody, very hard, white
 - Connato imbricate Single Odour disagreeable Inside old elms Sept Feb P 64 in diam
- 1588 F cytisinus Cooke (from one of its habitats, laburnum, Cytisus) a b
 - P thick, convex, smooth whitish, biscuit, or pale brownish

somewhat short, white-salmon, marg barren Po biscust or with a sulphur shade Plesh thick, close, velvety-fibrous, white Single to imbricate Stumps, dressed wood, rare P 6½ in diam Bresidola considers this and 1590 to be the same

1589 F connatus Cooke (from its connate habit) a b c

P somewhat thick, villous, whitish-buff, brown shaded T somewhat short, colour as P, marg barren Po minute, white to cream Flesh corky-woody, pale buff to full buff

Effuso reflexed, connato imbricate Trunks, lime, apple, elm, maple, frequent Oct-Jan P 6½ in dram Sec 1631

b Lignosæ

- 1590 F fraxineus Cooke (from its habitat, ash, fraxinus) a b c
 - P thick, flat, concentrically sulcate-plicate, zoneless, white or ivery to rich brown many whitish T decurrent, moderate in length, white, cinnamon- or pale vinous-white Flesh whitish-cinnamon
 - Solitary to connate Perennial Odour strong, penetrating Frequent [an -Dec 17 5½ in dram bresidoli considers this and 1588 to be the same
- **1591 F variegatus** (ookc (from the variegated pileus, orange and bay-brown) *a b*

 - Subimbricate. Trunks rare P 4½ in diam bresadola says this is unknown, and probably a form of Poliporu unsulatus Schett
- 1592 F carneus Cooke (from its flesh-colour care, flesh) a c
 - P somewhat thick, convex, rugose, smooth, salmon-buff to reddish-salmon, varying deep rich brown behind, pale at marg T shallow to moderate, full opaque-salmon Fksh pale bright salmon or red-salmon varying rose-blown marg barren
 - Connato imbricate Petennial Trunks, stumps, juniper, Picca Nov P 28 in diam A form of 1586 according to Bresadola Said to be the cause of "red rot in Red Cedar, Juniperus engineana
- 1592a F castaneus Cooke (from the colour, castaneus, chestnut) a P coriaceo-woody, flattened, smooth, glabrous, zoncless, chestnut-colour Po small, vellowish Flish white

Imbricato connate Black poplar Ii x Ii in if in projection

- 1598 F annosus Cookε (from its growing in yearly strata annus, a year) a b ε
 - P convey, rugged, radiato-sulcate, sulcato-zoned, at first silky, then crusty, cinnamon-ochre when young, then deep rich vinous- or sienna-brown, marg almost white. T moderate in

• length, stratose, whitish-buff Po medium, salmon-white Flesh colour as T

Imbricate About stumps, posts, roots, squared timber, pine, spruce, fir, larch, jumper, birch, beech, Seguna stanta very common Jan – Dec P 7\frac{2}{2} in diam Sometimes wholly resuprate Some forms of this are Traincts radiatypeda, said to cause "red tot and piping in larch, the mycelium growing from the roots to the trunk Sometimes phosphorescent in mines and seen 20 yirds off The white mycelium so often seen running over the hymenium belongs to Terticillium micro stermine, the condulal condition of Hyromyces Brownauw

1594 F populinus Cooke (from its habitat, trunks of popular, *populus*) a b c

P rigid, zoneless rugose, villous, warm-biscuit T deeply decurrent, not stratose, shallow Pv minute, colour as P

Nearly solitary to subconnite or imbricute, for the most part resupinate Aug -lan P 2½ in drun Puliform commutas Weimin (not Fr.) and 1631 are forms of this according to breadola, see 1631

LXIV POLYSTICTUS Fr

(From the pores or punctures on the hymenium (rr polus, many, str/tos, punctured)

Pileus coriaceous, membranaceous or somewhat spongy, cuticle thin and loosely fibrous Tubis first appearing in the centre and successively developing towards the margin, at first superficial and distinct, then becoming deeper

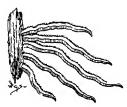


Fig 79 - Section of I olysticius versicolor Fr One half natural size

and more crowded, not stratose (Fig. 79.) Species 1595—1608
1595, 1595a and 1596 are placed

in Polystictus by Cooke and Massee, in Porus by Saccardo

a Stupposa Pilius flocculose, or adpressedly villous or smooth, uneven, zoneless, texture fibrous

Substance coloured

1595---1597

Substance white 1598, 1599

b Coriaceæ Pileus coriaceous, villous, zoned, usually in different colours 1600—1605

a Stupposæ

1595 P radiatus Cooke (from the radiato-rugose pileus) a b c P velvety to smooth, deep rich brown to dull orange, marg zoned bright sienna T colour as flesh Po minute, greyish-

- salmon, silvery-glistening, at length ferruginous Flesh ngid, corky, leathery, dull orange
- Imbricate Not perennial Trunks, beech, birch, oak, hazel, alder, gorse, frequent Oct -April P 4½ in diam Must not be confounded with 1603
- 1595a P nodulosus Cooke (from the nodular pileus) a
 - P triquetrous, nodular, corky, woody, not zoned villous, rugose, rough, fulvous then rust-colour T somewhat long Poroundish, unequal, acutely torn, light cinnamon with a silvery sheen Filsh very hard, lighter than P
 - Imbricate Dead beech Oct $2\frac{1}{2} \times \frac{3}{8}$ in Distinguished from 1595 by the at length confluent pores and by the absence of the brightly coloured margin of pileus
- 1596 P polymorphus Cooke (from its many forms, Gr polus, many, morphe, form) a
 - P smooth, somewhat pale vinous-brown, dark shaded, marg crisped T deeply decurrent Po somewhat large, angular, torn, colour as flesh Flish coriaceous, salmon
 - Connato imbricate Brunches, worked wood, fir Aug Group $\mathbf{2}_{\delta}$ in diam P i in diam Sometimes resupinate
- 1597 P cryptarum W G Sm, Boletus cryptarum Bull (from its frequent habitat—cellars, crypta, a vault) a b c
 - P corrugate, zoneless, adpressedly silky, pale vellowish-vinous-brownish T deeply decurrent, long Po minute, colour as flesh Flsh corky-cottony, paler than P
 - Connato imbricate Fir, frequent Group 43 in diam Transferred to Fomes by Cooke and Saccardo The same as 1608 according to Massee
- 1597a P ravidus Cooke (from the grey or tawny pileus, ravus, grey) a
 - P coriaceo-corky, flattened, roned, villoso-rugose, ochreous, slightly tinged brown-olive, base darker, sienna T somewhat short Po larger at mid, then smaller and absent at marg, biscuit-white Flish ivory-white
 - Imbricate Stumps of old willows Spread 5\frac{3}{4} in , I in thick Colour variable, usually yellowish
- 1598 P gossypinus Cooke (from the white-cottony pileus, gossypium, cotton) a ε
 - P tomentose, zoneless , marg slightly scaly, white T long, but varying $P\sigma$ laby rinthine, then angular, pallid cinereous
 - Somewhat connato imbricate Trunks, furze Jan Diam 21 in
- 1599 P fibula Fr (from its button shape fibula, a button) $a\ b\ c$ P velvety-harry, zoneless, sometimes radiato-rugose, white T varying in length Po small at length torn, white, sometimes family sulphur
 - Single to subimbricate or in troops Wood in cellars, forests, elm, oak
 Oct -Jan P 2 in diam Sometimes shield like, attached behind a

 centre of pileus, sometimes pendulous, at other times hoof shaped and triangular in section

b Corracea

- 1600 P hirsutus Fr (from the hairy pileus, hu sutus, hairy) a b c P becoming plane, depressed behind, zoned with furrows, varying white, pale slate-brown or brassy-yellow, z yellowishbrown T long, deep, ochreous-white Pe torn, whitishsalmon Fesh thin, corky-cornaceous, colour as T
 - Single to imbricate, effused behind beech, poplar, plum Oct-Mar P 1 in diam Pores much larger than in 1603
- 1601 P velutinus Cooke (from the velvety pileus, velluctum, velvet)
 - P plane, slightly zoned, white to ivory-ochreous marg white T short, white Po minute, white to yellowish, marg barren Flesh corky-coriaccous, white
 - Single to connato imbricate Stumps, branches, etc., willow beech, fir, birch, uncommon Nov Group 2\frac{1}{2} in diam I' 1\frac{1}{2} in diam
- 1602 P zonatus Fr (from the zoned pileus) a b c
 - P convex, tubercular-gibbous behind, villous, v unicolorous to varying ivory, ochre, brown, rufous, sienna, ctc, oi whitishyellow, graduated and zoned sierna. Po minute, biscuit Flesh corky-coriaceous, yellowish-white
 - Single to subimbricate Trunks, elm, poplar, birch June-Oct P $3\frac{1}{4}$ in diam
- 1603 P versicolor Fr (from its variable colours) a b c
 - P even, velvety, shining pale smalt-blue, sooty-slate, or of various tints of ochre, ivory, brown or greenish T shallow Po minute, ivory, marg barren Flish thin, rigid-conaceous, ivory
 - Imbricate Dead wood, fences, branches, encircling twigs, back of an old brush, oak, willow, alder April-Feb P 5½ in dam The tubes are sometimes bright orange or vermition from the growth of a parasitic mould, Hippomyces aurantus. When growing on sticks, if the stick is inverted, a new hymenial surface with pores will appear on the downward pileus Pores sometimes wholly eaten away by insects 1774 sometimes grows on this Var fuscatus Mass P brown Po torn into teeth, vellow
- 1604. P abietinus Cooke (from its habitat, fir-trunks, Abies, hr) a b c P villous, white, zoned dove-grey, marg sometimes purplish T very shallow Po unequal, pale slate, becoming pale brown to vinous- or purplish-sienna Flesh very thin, pale brown
 - Connato imbricate, effuso reflexed Fir, cedar, cypress, common Jan -Nov Group 3½ in diam Pileus frequently overgrown by green alge Some times wholly resupinate with a broad white woolly margin Must not be confounded with 1610

1605 P Wynnei Cooke (after Mrs Lloyd Wynne) a b c

P membranous, marked with silky raised lines, faintly brownish, yellow-white, sometimes orange or tan T varying in length Po small, whitish

Effuso reflexed, almost wholly resupmate Running over twigs, grass, etc., around stems of Carex paniculata Sept -Dec Group 3 in diam Pore surface with barren places in middle and at margin

LXV PORIA Pers

(From the porous hymenium)

Resupinate, forming more or less extended patches or thin membranous expansions Pores forming a continuous stratum, springing from a thin, often rudimentary subiculum (Fig 80)

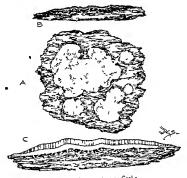


Fig 80—I com riporirii Cooke v entire B in section One half natural size c section × 4

This is almost entirely the section of Polyperus named Resupinata by Fries, the sequence adopted is that of the Hymenomyalis Europæi

ries, the sequence adopted in	Species 1605a—1648
- c connamon	1605a—1609
Pores ferruginous or cinnamon	1610, 1611
Pores purple or violaceous	1612-1615
Porcs red	16161620
Pores yellowish	16211627
Pores at first white, changing colour Pores usually persistently white, minute of	rouded, round, equal
Percs persistently white, unequal, angula	er, crowded, commonly
Percs persistently write, unequal, ungui	1636—1648
somewhat large	rm 1644- 1648
Ports white, superficial, distant, punctifor	1647, 1648
Of uncertain affinity	2 4 2

1805a P obliqua Achar (from the oblique growth of the tubes) a c Sub very thin marg barren, sometimes recurved, forming a narrow P T more or less elongate owing to oblique growth, usually minute, ¹/₁₀ to ¹/₁ in long when not oblique, orangebrown or cinnamon, sometimes of two strata Fksh colour of Po

Trunks, logs, rotting wood $4 \times 2\frac{1}{4} \times \frac{1}{17}$ in Regarded as a species of *Fomes* by Cooke and Saccardo

1606 P umbrina Cooke (from its brown colour umbrinus, brown-coloured) a

Undulato-tubercular, full to dings umber marg smooth salmonor vermilion-white, paler than pore-surface Sub thin but variable T somewhat long, varying Po minute, roundish, unequal, sienna

Trunks 31 in Fomes umbrina Saccardo

1607 P resupinata W G Sm, *Boletus resupinatus* Bolt (from its resupinate habit) a

Undulato-tubercular, spongy-corraceous umber, vellowish vinousumber or ferruginous Sub thin fibrous T long, varying, sometimes stratose Po minute, pore surface nodulose to plane, umber

Broadly effused Trunks, branches, hazel Feb 33 in T¹ is may be a resupinate form of 1860 or 1861 Con pare 1805a Fones recupinata Massee

1608 P ferruginosa Karst (from its rusty colour, firum, iron)
a b c

Undulato-tubercular, ferruginous or cinnamon mang barren, sometimes reflexed as a narrow P, ochre or rust colour, with white mycelium at edges of new growths Sub thin but varying T long, varying, sometimes 2-stratosc or reduced to $\frac{1}{32}$ in Po medium to minute, brown $M_{1\ell}$ white to ochreous

Imbricate, broadly effused Trunks, brunches, posts, sticks, abele, beech, oak, pine, alder, bramble, sometimes on dead leaves common Oct – May 5½ in At first appearing as a confervoid stratum Forms firingmosa Massee

1609 P contigua Karst (from its close investment of sticks, etc., contiguus, continuous) a c

Somewhat plane, cinnamon or yellowish-sienna, dingy when old, marg barren Sub thin, from 1 in to a membrane T short Po somewhat large, brownish Myc ochreous

Effused, less so than in 1608 Trunks branches, sticks, rotten wood, etc, pines, sweet gale, maple, hornbeam, uncommon 3 in Sometimes wholly investing branches

1610 P violacea Cooke (from its violet colour) a c

Plane, purple with marg paler or whitish, or deep purplish to crimson-brown, with marg light or ivory, clouded rufous Sub a film T short P_{θ} round or wrinkled as in M_{erubus}

Effused, determinate Stumps, trunks, poles, fir, frequent Aug – May 4 in Allied to Merulius. Must not be confounded with 1604, in which the pores are deeper and torn and the margin reflexed

1611 P purpurea Cooke (from its purple colour) a c

Plane, purple-lilac marg barren, paler Sub a film T short, Po minute Myc mucedinous, floculose, white

Stumps, willow, beech 3\frac{3}{2} in The violet colour disappears in drying

1612 P incarnata Cooke (incarnatus, flesh-colour) a c

Plano-undulate, corraceous, marginate or immarginate, dark flesh-colour or orange becoming dark purple-brown-crimson or purple-blackish marg broad, white or ochreous, sometimes vinous-clouded, sometimes shortly reflexed as a narrow P Sub a film Po short, unequal

Effused Fir rare June-Nov 6½ in Sometimes with barren patches

Must not be confounded with 1604

1613 P rufa Cooke (from its reddish colour rufus, red) a c Plano-undulata, umber, vinous-umber, blood-red-rufous or deep reddish, marg barren, byssoid when young, grevish Sub a film Po short

Litu ed Trunks, sticks, branches, etc., broom, beech, bird cherry 31 in

1614 P rhodella Cooke (from its rose-colour Gr 1 hodon, a rose) a Plane, soft, white, flesh colour, vermilion-salmon or Indian-redsalmon, marg determinate, salmon Sub a film Po short, minute, not torn

Effused Frunks, fir, beech Aug 41 in Thinner than 1613

1615 P micans Ehib (from its glittering pores mico, to glitter) a c Plane, often with rain-drop-like barren depressions on surface, whitish-flich or biscuit-colour, marg flavy, byssoid, white Sub a membrane T short Po minute, irregular, angular Effused, orbicular, confluent Dead wood, rotten trunks, ash No

3\xi hugucious

1616 P nitida Pers (from its shining pores, nitidus, shining) a c Plane, bright vellow to pale sienna-yellow, marg villosodeterminate Sub a membrane T short Po round, minute

Ettused, subadnate Dead wood rare Mar 31 in

1617 P Læstadii Cooke (after C P Læstadius) a b

Plano tube recular, brittle, separable, bright lemon-yellow, whitish-sulphur or ivory-salmon when dry marg not barren, edge minutely and narrowly fibrillose Sub thin, white T short, of different depths Po very minute, statuous

Effused, sometimes stratose as if perennial Deal boards, sometimes in greenhouses Aug 3½ in

- 1618. P bombyeina Cooke (from the silky membranous subiculum, bomb₁α, silk) a b c
 - Sub very thin, translucent marg byssoid Pe large, angular, sinuous marg arachnoid-velvety, pale buff or white
 - Effused Rotten wood rare Sept 3 in The gruin of the wood some times shows through the extremely thin sub-tance
- **1619** P aneirina Cooke (from the margin not being woolly as in **1618**, Gr *an*, not, *armes* woolly) *a c*
 - Sub thin, coriaceous, somewhat flaxy marg by ssoid Pe shallow, large, waxy, fulvous, tawny, warm biscuit-colour or bright orange-yellow marg flaxy, becoming waxy, white Mic buff-white
 - Effused Dead wood branches poplar pine under the bark rare Oct 4 in Contracting and becoming form in drying
- 1620 P ramentacea Cooke (from one of its habitats, chips ramenta)
 - Sub thin, tomentose white Pe somewhat large hexagonal, honey-colour maig almost obsolete, irregular warm-ivory
 - Somewhat orbicular Dead branches, for Supt 1½ × 1 iii Cartilaginous and horny when dry Earren patches occur on the hymenium
- **1621 P eineta** Cooke (from the encircling, erect strigosc fibres, ange to encircle) a . White to ivoiv
 - Sub membranous, sometimes barren and with lacuna marg byssoid Po extremely minute
 - Old deal boards rotten planks rare 34 in Patches of vertical strigge become confluent and form a subjection
- 1621a P fuscocarnea Cooke (from the brownish flesh-colour, fuscus, dark brown, care, flesh)
 - Sub thin marg definite T_{-1} to $_{1}$, in long Pv minute, fawn-colour when fresh or vinous brown, graduated paler Rotten wood, puttid trunks $_{3\frac{1}{2}\times 3}$ in
- **1622. P** armeniaca W G Sm, *Polyporus armeniacus* Berk (from its apricot-colour armeniacum, apricot) a b
 - Sub membranous to ½ in or more thick maig thin, well defined, minutely downy or bissoid. Pe shallow, to ½ in deep, rounded, somewhat irregular minute white, then bright buff, or glancing with the light, ochreous on side view, bright foxy-brown on full view.
 - Broadly, effused, suborbicular, confluent Burk, pine Nov April 3½ x 1½ in Sometimes a rugged free pileus is formed Cooke refers this to 1566, but the spores are different in shape and size
- 1623 P Rennyi Cooke (after James Renny) a b
 - Sub thin to somewhat thick, pulsimate, at first somewhat frothy, then dry and pulverulent, marg bysood Po minute, few, irregular in depth, here and there elongated, white, becoming lemon or pale buff Myc gelatinous, partly byssood
 - Odour pungent On the ground, rotten wood, running over *Marchantia*, fir Nov $2\frac{1}{2} \times \frac{3}{4}$ in Pores sometimes absent or subsculum with large barren patches

1624 P subfuscoflavida Cooke (from the pale brownish-yellow colour, subfuscus, somewhat dusky, flavidus, yellow) a c

Sub thin, conaceous, dry, marg thin, byssoid, determinate, white Po minute, irregular, white, then yellowish-brown or glancing white and grey-brown

Broadly effused, confluent Dead oak wood, planks, etc 23 in

1625 P viridans Cooke (from its pale æruginous colour, virido, to become green) a c

Sub thin Po minute, shallow, white, ivory or pale buff, then pale verdigris, marg pulverulento-tomentose

Effused, crustaceo adnate Rotten wood, rare Sept 2\frac{3}{8} in Sometimes a mere thin, pale eruginous film without pores

1626 P terrestris Cooke (from its terrestrial habit) a c

Sub very thin, marg arachnoid flavy, fugacious with a byssoid white edge Po shallow, minute, angular, becoming smaller and scattered towards the wide, barren marg, white, becoming pale umber or faintly rufescent

Effused black earth, red clay, rotten wood, uncommon May-Nov 4 in

1627 P subgelatinosa Cooke (from the somewhat gelatinous subjectium) $a \ b$

Orbicular, forming small pulvinate masses with an obtuse raised border, at first tomentose and pallid, becoming black and subgelatinous Pe somewhat large, others small, variable in size, pale grey

On dead wood, on 1566 15 in

1628 P medullapanis Cooke (from its colour like pith or bread, medulla, pith, panis, bread) a b c

Somewhat undulate, firm marg barren, whitish, sometimes upturning and separating from matrix T somewhat long Pv medium size

Decayed branches, mulberry, oak, hornbeam, on the ground uncommon Sept –Feb $_{4\frac{\pi}{8}}$ in Sometimes in certain positions 4–6 stratose

1629 P mucida Pers (from its mucid substance) a c

Sub somewhat thick, soft, elastic, marg barren, indeterminate, flavy Po shallow, medium size, unequal, torn, white to ochre-white Mjc sprending and often forming small orbicular, transparent, barren patches

Effused in long patches Decayed fir 38 in Thicker than 1634

1630 P vitrea Pers (from its shining glassy appearance as if wet, vitrum, glass) a c

Sub somewhat thick T somewhat long, trunslucent, whitish P_{θ} minute, entire, roundish, whitish, becoming buff-white or vinous-buff-whitish

Broadly and unequally effused Dead wood, fir, on the ground under beech, uncommon Aug-Mar 33 in With the appearance of shining wax

- 1631. P obducens Cooke (from the covered-over or superimposed strata, obduco, to cover over) a c
 - Sub a hard, almost obsolete, inseparable film T somewhat long $\frac{1}{16}$ to $\frac{1}{8}$ in Po minute, white, becoming pale dull salmon
 - Effused Rotten trunks, pine, oak, beech, rure July-Feb 3½ in Bresadola says this is a resupmate form of 1594, Massee of 1589 During the first year it resembles 1633 Irregular in section, perennial by strata for six or more years
- **1632 P callosa** Cooke (from the hard subiculum, callum, hardened skin) a c
 - Sub a firm, somewhat thick, leathery membrane, separable from the matrix, white, becoming umber T somewhat long Po round, equal, entire, white becoming biscuit marg white
 - Broadly effused Dead wood, oak, maple April 3½ in Surface sometimes with small depressions as if from rain drops Annual, not stratose
- 1633 P vulgaris Cooke (from its commonness, vulgaris, common) a c Sub a membrane, closely adnate to the matrix, almost obsolete Po somewhat shallow, white to biscuit or faintly ochreous, sometimes with a white, irregular barren maig, attached to thin, white, cloud-like growths of mycelium, maig soon even and smooth
 - Broadly effused Dead wood, branches, pine oak, beech, common July-Mar 5½ in Patches often very large, sometimes wholly investing brunches, sometimes with vacuoles Annual not stratose Appearance wax like
- 1634 P mollusea Cooke (from its softness molluscus, soft) a b c Sub a membrane Po somewhat shallow, large in middle, smaller towards marg, white becoming pale biscuit or brownishwhite, marg broad, barren, white, radiate with white strands of mycelium
 - Broadly effused Dead wood, dead leaves, furze, poplar, ash, common Jan -Dec 41 in Sometimes proliferous or 2 stratose
- 1685 P collabefacta Cooke (from the pores which appear to anse from the collapsing substance, collabefo, to be brought to ruin) a b
 - Sub a membrane Po minute, shallow, white to ivory, marg obtuse, barren, with a few barren places on surface
 - Effused Dead wood Oct 3½ in Running over the matrix like a thin Corticium
- 1636 P sanguinolenta Cookε (from its changing to blood-red where bruised, sanguis, blood) a b c
 - Sub a membrane T somewhat shallow Po small, irregular, becoming torn, white to yellowish-white
 - At first nodulose, soon confluent and effused Decayed trees and branches, rails, dead wood, running over earth, clay and moss, uncommon Aug Nov 2½ in

- **1637** P radula Pers (from the small teeth, as of a comb, where the porcs are elongated radula, a scraper) a c
 - Sub a membrane, separable from the matrix T shallow, somewhat long in middle, sometimes 2-stratose or comb-like, spinous near the sometimes barren marg, white to biscuit, not turning red
 - Effused Trunks, brunches, fir, oak, hornbeam Surface with small depressions, sometimes with burren places Aug.—Ian 33 in
- 1638 P vaporaria Cooke (from the warm, moist air, in which it luxuriates, *capararium, *1 stove) a b c
 - Sub a thin, firm, inseparable membrane P shallow, large, torn, white to work
 - Broadly effused Most woods on dead branches, decrying wood, rails, pine, oals, pophri, alder bamboo, running over dead leaves, on root wounds, barked and injured places, squared tunber in buildings, very common Jan -Dec 4 in Hartig states this fungus to be as destructive as the 'dry rot' fungus 1680 on hims, spruce and pine Ceromyics (Pythologaster) inbiscent is said by Saccardo to be an imperfect state of this Var separating from the matrix, white, then honey colour, fir leaves under moss
- **1639 P hibernica** Cooke (from the place where first observed, Wicklow, Ireland) *a*
 - Sub a membrane, not separable from matrix Po small, shallow, polygonal not fimbrato-toothed white marg narrow, thin radiato by soud
 - At first small, orlicular, then confluent and broadly extended. Decorticated fir branches. Sept. 5\frac{1}{2} in
- 1640 P Gordoniensis Cooke (after the Maichioness of Huntly) a c Sub a thin, extremely delicite film, separable from matrix Pominute, fimbriato toothed shining white, becoming faintly yellowish-white many broad barren white
 - Somewhat effused Fir poles Feb 2\frac{1}{2} in Closely resembling 1639 in general appearance
- 1641 P Vaillantii Cooke (after Leon Vaillant French botanist) a b ε Sub α thin film here and there traversed by ribs Po tather large, shallow produced here and there in clusters white or slightly rufe-scent marg broad, barren, bordered by broad barren radiatung growths ending in strands of mycelium
 - Broadly effused Dent wood April-Oct to in
- 1642 P farinella Cooke (from the pulverulent margin farina, meal) a c
 - Sub a very delicate thin film Po shallow, with a ragged, toothed appearance maig bload, barren, unwoven, edge pulverulent
 - Broadly and irregularly effused Old timber, dead wood, beech, oak, pine, cedar Dec Mar 4½ in Fugacious to the touch

1643 P hymenocystis Cooke (from the cyst-like pores of the hymenium) $a \ b$

Sub very thin, irrelation of Pe large, shallow, irregular, dissepiments scarious collapsing, white, becoming pullid marg narrow, by ssoid

Black, rotten wood 4 in

P blepharistoma Cooke (from the eyelid-like appearance of the pores, Gr blepharen, an eyelid, stoma, a mouth) a b

Sub a thin film Pv small, dissepiments thin, edge finely toothed, white, marg barren, edge minutely by ssoid, somewhat mealy Mv an achnoid

Dead wood, decorticated branches, leaf mould July-Nov 4 in

1645 P corticola Cooke (from its growing on bark cortia bark, colo, to inhabit) a

Sub a film, firm Po very minute, often obsolete, or in small irregular patches white to biscuit, maig radiate, byssoid Poplar, birch, horse chesinum in 33 in

1646 P reticulata Cooke (from the net-like hymenium ret, a net) a c

Sub a thin film Pe cup like, somewhat large white marg barren, radiato-floccose or byssoid

Orbicular, confluent Rotten wood Sept - Feb 4 in Vers delicate, soon disappearing

1647 P bathypora Cooke (from the deep cup-like pores Gr bathus, deep, per es a pore) a Sub a thin film Pe cup shaped somewhat large dissepiments

toothed, white, becoming brownish marg flaxy

Fifused Deed on beech 34 in Sometimes 2 stratogy besembling

Effused Dendoak, beech 34 in Sometime 2 strates. Lesembling the resupinate form of 1660

1648 P hybrida Cooke (from the possibility of its being a monstrous form of 1559) a b c

Sub a thick felt-like membrane, white, sometimes branched, sometimes forming small inflexed superimposed white pilei Po very minute to large, shallow to $\frac{1}{4}$ in deep torn, white to biscuit marg irregularly radiato-branched

On oak in ships, etc. causing "dry rot' lan-Dec 7 in Sometimes a mere radiato branched white membrane with a few small patches of pores or forming pendulous masses from horizontal beams, with tubes beneath

LXVI TRAMETES Fr

(From the generic distinction depending on the trama—the substance which grows between the membranes of which the dissepiments of the pores are composed)

Trama continuous and homogeneous with the flesh of the pileus Pileus, when present, woody, corky-woody, corky or soft Stem

none Tubes unequal in length, rarely stratose Pores subround, more or less elongated radially, not labyrinthiform, entire, often unequal in depth, dissepiments somewhat thick (Fig 81)

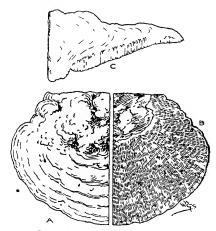


Fig. 8r - Iranici i sa Fr. One hidf natural size a upper urface n liwer of ace c center

Several species are tragrant of anise never acid. Growing on wood

Intermediate between Peliperus and Dædaka

Species 1649-1657a

 a Apodæ
 Without a stem

 Substance coloured
 1649

 Substance white or whitish
 1650—1654

 b Resuprinata
 Resuprinte
 1655—1657a

a Apoda

1649 T Pini Fr (from its habitat, p ne) a b c

P pulvintte, sulcuto-rugged, stein to deep sepia, marg yellowish T somewhat long, brown-ellowish to bright ferruginous, rarely stratose Po large irregular, oxal Flesh corky-woody, brownish to deep steina

Odour funt, pleasant Trunks, pine, fir, larch, rure Sept-Oct 58 in Often covered with algo and lichens. Hartig states that this fungus is the cause of the discases known as "bark shake" and "ring shake" or "heart-shake". The same as Polyporus Deminofit Lev according to Bresadola.

1649a T cinnabarina Fr (from the red-vermilion colour of the pileus, Gr Linnabari) a

P fleshy, corky, convexo-plane, pubescent to glabrous, somewhat zoned, rugulose, red-vermilion, not dark T and Po somewhat crimson

Connate Trunks, birch, beech, etc Oct 31 x 3 in , projection 2 in

1649b T Trogii Beik ex Trog (after J G Trog) a

P fleshy, convex, somewhat zoned, pilose, buff-white to pale buff T white-buff Po variable in size, subangular, toothed Flesh white

Connato imbricate Dead aspen Oct 5 x 23 in , projection 13 in

1650 T gibbosa Fr (from its thickness and convexity, *gibbus*, gibbous) *a b c*

P pulvinate, velvety, somewhat rugged behind, obsoletely zoned and tuberculate, whitish-ochre, grevish at the obtuse marg T long, faintly brownish-yellow Pe round, oval, colour as P Fish corky, compact, yellowish-white

Sometimes imbricate Odour slight of anise when fresh "stumps, posts, rails, oak, becch, willow, poplar, not common Oct"—Feb 6 in Not always gibbous, sometimes thin

1650a T rubescens Fr (from the porcs becoming signna-red) a

P dimidiate, coiky, thin, smooth, at length rugoso-roned, white to rose-sulmon and olive-brown densely pulverulent Po roundish, irregular, white-salmon, clouded rose-colour

Salix capria $\,$ Oct $\,$ 1½ \times 1½ in $\,$ Porcs and flesh changing from white to crimson on being scratched

1651 T Bulliardii Fr (after Pierre Bulliard) a c

P pulvinate, whitish, yellowish or brownish, sometimes zoned dark brown, marg greyish or pale ochre T long, vinous-yellowish Po large, irregularly roundish or sinuous Flesh faintly brownish-white, becoming fuscous

Fragrant Dead wood Sept -Oct 54 in Closely allied to Dadaha

1652 T suaveolens Fr (from its fragrance, suavis, sweet) a b c

P pulvinate, villous, sometimes rugged, zoncless, whitish

In partition, sometimes ringged, zonciess, whitish Pe roundish, whitish, becoming fuscous Fhsh corky-soft, whitish or dull straw-colour

Often imbricate Odour of anise till dry Trunks, willow, lime, etc , uncommon Oct-Dec 64 in Often enveloping grass and twigs

1653 T odora Fr (from its fragrance, odor) a

P pulvinate, uneven to smooth, zoneless, ivory-white or grey-whitish T shorter than in 1652, white or pale buff-white P_{θ} minute, roundish, half the size of 1652 Flish corky-elastic, white

Willow, rare Jan 31 in

1654 T inodora Fr (from its being scentless, inodorus) a

P expanded, thin, tomentose, smooth, zoneless, white or grevishwhite T long, unchanging white P_{θ} minute, roundish Flesh corky-firm, white

Stumps, beech 21 in

b Resupinata

1655 T mollis Fr (from its soft substance mollis, soft) a b c

Sub somewhat membranous, whitish T shallow Po large, cup shaped, irregular, yellowish- or brownish-white, becoming fuscous, then black marg broadly barren, determinate, then revolute, pubescent beneath

Often broadly effused Dead wood, beech common Jan -Dec 41 in Probably lasting for two years

1656 T Terryi B & Br (after Michael Terry) a

Sub pulvinate, corky suborbicular, I in thick whitish, marg determinate, undulate T shallow 4-stratose in examples first found Po irregular with thin walls Flish dry, with 4-5 annual growths, white

Odour none Beech 4 in

1657 T cerpens Fr (from its frequent sinuous creeping habit, scrpens, creeping) a b c

Sub somewhat pulvinate, $\frac{1}{1!}$ in thick and, white T shallow to somewhat clongate Po large somewhat round, unequal, ivory-white marg barren, determinate pubescent

At first orbicular, soon confluent Hornberm, privat, oak, oak chips in tan pits, squared oak timber, beach Aug – Ian 5½ in Polyforus Stevensn L & Br Must not be confounded with 1553

1657a T purpurascens B & Br (from the hymcnium becoming

Sub somewhat lenthery, subtomentose, chestnut T rigid, becoming purple Po small

Dead willow 3 in

LXVII DÆDALEA Pers

(From the Cretan laby unth made by Dædalos-in reference to the intricate, labyrinthine pores)

Agreeing with Trametis, except in the firmer and sometimes thicker dissepiments of the pores, which, when fully grown are irregularly sinuous or laby rinthine, the floccose substance of the hard pileus descending unchanged into the trama (Fig 82)

Species 1658-1666 Inodorous 1658--1661

Corky-woody, dimidiate, sessile

Cornaceous, dimidiate, sessile 1662, 1668
Resupinate 1664, 1665
Resupinate or effuso-reflexed, of uncertain affinity 1666

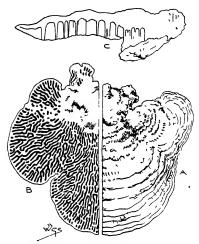


Fig. 82—D'edalea quereina Pers. One half natural size a upper surface. B lower surface. C section

1658 D quereina Pers (from its habitat—oak, quereus) a b c

P somewhat zoned, rugulose, uneven, somewhat smooth, buffbrown, darker behind T long Po at first simple, then
laby rinthine, edge obtuse, whitish-salmon Picsh pale sicinna

Single or imbricate, perennal Sometimes on squared timber Jan -Dec
7 in Sometimes resupinate Occurs in peat beds in the eastern counties
and in the lake side pile dwellings of Switzerland and lasy

1659 D aurea Fr (from its golden colours, aurum, gold) a c P somewhat zoned, rugulose, uneven, coarsely velvcty, orangeor yellowish-brown T somewhat long Po simple then sublabyrinthine, opaque sienna-orange Fhsh sienna-white Single to imbricate Dead oal. 22 in Pores usually rounder than 1658

1660 D confragosa Pers (from the rugged pileus, confragus, rough) a b

P roughly rugulose and zoned, buff- or liver brown T somewhat long Po moderately large, chiefly round and oblong, or

- sublabyrınthine, pale umber, becoming darker Flesh pale sienna
- Single, rarely subimbricate Oak, willow, poplar, beech, service Oct Feb 5½ in In drying smells of stinking fish
- 1661 D cinerea Fr (from its ashy pileus cincreus, ash-colour) a c P undulate, zoned, tomentose, whitish-umber to greyish, z darker T somewhat long Po round to oblong and labyrinthine, whitish to ashy or biscuit Flish white to biscuit Single to imbricate, perennal Dead trunks Jan -Dec 4# in
- 1662 D polyzona Pers (from the many-zoned pileus Gr polus, many) a c
 - P tomentose, yellowish-brown, darker or reddish behind, z dark brown T somewhat long, sometimes in two strata Po sublabyrinthine, buff-white Flesh somewhat thin, buff-white Imbricate Jan Dec 54 in
- 1663 D unicolor Fr (from its single colour, unus, one, color, colour) a b c
 - P somewhata rugged, villoso-strigose zoned, yellowish-brown T moderately long Po labyrinthiform sometimes of two strata, pale buff Flish pale buff
 - Single to imbricate, sometimes resi printe and effused with small development of pileus tumps, rails birch, beech, acacar imple, oak, willow, chestnut, hornbeam, common Jan -Dec 4½ in Flesh sometimes much caten by larva
- 1664 D latissima Fr (from its broadly spreading habit, latus, broad) a b c
 - Sub from a film to ½ in thick, undulate Po of varying depths, small round to sublabyinthine, narrow, distant, colour of washleather, many barren
 - Dead wood branches, beech, rare 5 in Sometimes effused for 2 ft
- **1665 D vermicularis** Pers (from the colour, or the worm-like shape of the pores, *termis*, 3 worm) *a*
 - Sub thin to ! in Po shallow partly elongated to ! in deep, sinuous, round near the barien maig very pale salmon, or partly white and partly pale flesh-colour
 - On the ground, in contact with wood and earth Aug 51/4 in
- 1666 D ferruginea Schum (from its colour of iron-rust forum, iron) a
 - P at first white-villous, becoming yellowish sienna or yellowish-brown, z 2-3, umber T \(\) in deep, round to sublabyrinthine, tawny or yellowish-sienna, marg barren, white-villous Flesh \(\frac{1}{8} \) in , pale yellowish-sienna
 - Imbricato connate Dead wood 14 in

LXVIII MERULIUS Halle

(From the common colours of the hymenium yellow or orange, or partially black the colours of the beak and plumage of the blackbird, merula)

Resupinate Pilius when present, effuso-reflexed Stim none Hymenophore a soft, woven mucedimous mycelium, covered with the



Fig 83-1 cru'ins tiers mans Schum entire and section above. One third natural size

waxy-soft, porous, gyrose or obsoletely toothed hymenium Speris white or ferruginous On wood, sawdust, leaves, mosses, etc., rarely on the ground (Fig. 83) Species 1666a—1681

a Leptosporæ Spores white

Pileus effuso-reflexed, circumference determinate

1666a—1669

Resupinato-effused, flaxy-membranous, separating, flaxy beneath and at the circumference 1670—1674

Crustaceo-adnate, somewhat flavo at the circumference

b Contophora Spores ferruginous Hymenium at length pulverulent with spores 1675—1679

1680, 1681

a Leptosporæ

1666a. M confluens Schwein (from the habit, small growths becoming confluent into large patches) a

Resupinate, longitudinally effused, somewhat fleshy, vinous piscuit colour marg free, inflexed, subtomentose, biscuit-colour Po very small, uneven, reticulate

When the small patches become confluent, the lines of junction become raised as irregular hexagons Branches, alder Aug Small growths papillate, about § in diam Confluent masses about 3-4 in

- 1667 M tremellosus Schrad (from the tremulous substance) a b α P dentato-squarrose near marg, yellowish-white, salmon shaded Po pale ochre to yellowish-white, brownish-ochre at base, marg barren, white Flesh fleshy-tremellose, approaching Tremella, very pale blue-grey and pale salmon
 - Connato imbricate Odour strong, fungoid Decayed trees, wood, beech, birch, oak, rare Aug Feb 6 in At first resupinite Hymenium usually rich vinous brown when dry
- 1668 M aurantiacus Berk (from the colour, aurum, gold) a
- P tomentose, sometimes zoned, dull yellowish-white, or ashy Po somewhat poriform, minute, dull orange, marg broad, barren Fhsh fleshy-coriaceous

Dead trunks, beech, rare May 13 in

- 1669 M corium Fr (from the thin leather-like subiculum, corium, skin, leather) a b c
 - P becoming slightly reflexed, paper-like, zoned, villous-hairy, separating, white Po small, gyrose or pore-like, flesh-colour, pale tan, orange-yellow, orange or sienna-orange, marg broad barren, white Flish soft
 - Dead wood, trunks, branches, hornbeam, oak, furze, moss, sometimes on old beams, etc., in houses, sometimes pendulous, like a small inverted cup, common Mar -Jan $6\frac{1}{2}$ in
- **1670 M læticolor** B & Br (from the colour , *lætus*, bright) a Po at first obsolete, then plicato-rugose, distant, bright orange , marg broad, barren, white

Coarse sawdust and leaves, oak, pine, mountain ash Nov 3 in

- 1671 M aureus Fr (from the colour, aureus, golden) a c
 - Po large, walls thin, plicato-porous, orange or golden-yellow, marg broad, barren, sulphur
 - Pine boards, pine leaves and cones Oct 23 in Hymenium dark brown when dry
- 1672 M himantioldes Fr (from the thong-like shape of the folds of the hymenium Gr himas, a thong, eidos, appearance) a b c
 - Po porous to gyrose, folds tooth- or thong-like, yellow to dull ochre or yellow-olivaceous, marg barren, white or sulphur
 - Dead wood, fir, cherry, club moss, rare Sept –Dec 73 in Hymenium olive or dark brown when dry
- 1678 M molluscus Fr (from the soft substance, molluscus, soft) a b c Po large, round, pcroso-gyrose, flesh-colour, deep carnation or ochre to rich orange, marg broad, barren, white Hym rufous or vinous-brown when dry
 - Wood, branches, fir, sometimes spreading over and conjoining fallen twigs, uncommon Sept -Feb 8 in
- 1674 M fugax F1 (from its collapsing hymenium and fugitive habit, fugio, to flee) a b c Byssoid to membranous, very thin
 - Po reticulate, feebly developed and soon collapsing, white to

yellowish-white, marg very broad, barren, white Hymbrown when dry

. Bark, pine, alder Nov -Jan 3½ in Pores sometimes not developed

1675 M porinoides Fr (from the poriform folds of the hymenium)
a b c

Po large, round, dissepiments feeble, pale dull yellowish or brownish-ochre, marg broad, barren, white to yellowish-white Dead wood, chips, bark, fir, on the ground, rare Sept 4½ in

1676 M rufus Pers (from the reddish hymenium, rufus, reddish)

Po regular, round, medium to small, red-sienin, or light to dark vinous-brown, marg obsolete or narrow and irregular, barren, colour as Po

Often effused Dead wood, oak, willow uncommon Miv-Feb 3½ in Vinous blackish when dry Greatly resembling a resupinate Polytonis

1677 M serpens Tode (from its wavy, creeping habit, scrpo, to creep) a b c Inseparable, thin

Po wrinkled to round, angular, entire, dissepiments sometimes feeble, pale to ochreous-salmon or red, marg broad, barren, white Hym dark vinous- or rufous-brown when dry

Fir, lime, ash, cedar, cones, rare Oct -Mar 61 in

1678 M pallens Berk (from its pale colour, palleo, to be pale) a b c Inseparable, somewhat gelatinous

Po round but variable, minute to somewhat large, feebly developed, pale reddish- or brownish-salmon, sometimes orange-brown, marg indeterminate barren Hym pale purple-umber to deep vinous-brown when dry

Fir, oak, rare June-Dec 38 in

1679 M Carmichælianus Berk (after Capt Dugald Carmichael) a c Confluent, very thin

Po large to small, often hexagonal very shallow, with feeble dissepiments, white, marg narrow, obsoletely punctite, edge finely laciniate

Bark 31 in Brown when dry

b Consophoræ

1680 M lacrymans Schum (from the watery drops on the fully developed hymenium, *lachryma*, a tear) a b c

Spongy-fleshy, arachnoid-velvery below, sometimes reflexed with a small extended rigose whitish more or less imperfect P Po large, round to gyroso-toothed, sicnna-orange, yellowish towards the barren tomentose white or salmon marg Flesh grey-whitish-flesh colour or vinous-brown Hym dark brown, sometimes almost black when dry

Odour very strong, fungoid, penetrating Dressed wood in buildings, spread ing over brickwork, plaster, mortar, cripets, etc. Does not grow out of houses in this country. Ian -Dec. 1 ft. 5½ in The fungus of "dry rot". The flesh gives a red stain to paper like 1517 Var putverulentus.

Fr, a membranous form, with a somewhat more feeble development of pores than in type Must not be confused with 1834, a plant which has no pores

1681 M squalidus Fr (from its squalid appearance) a b c Smooth, with extensive barren places

Po large to small, somewhat sinuous, hyaline flesh-colour, marg broad, barren, paler, fibrillose at edge Hym dull, dark vinous-umber or purple slate black when dry Hornbeam, posts, dressed wood Feb 3½ in

1681a M Guillemotii Boud (after M Guillemot) a

P dimidiate, imbricate, smooth, white, becoming greyish with age Po gyrose, subgelatinous, fulvous to brassy-orange, slightly olive, pulverulent with spores Flish white to pale lavender On posts, palings, willow June-Sept 4\frac{1}{2} \text{ x 2\frac{3}{2} in projection 2\frac{3}{2} in

LXIX POROTHELIUM Fr

(From the perforate tubercles, spines or teat-like teeth,

Subculum mor, or less membranous, bearing obtuse, or elongate, distinct papille, which are at first closed, then open in the form of pores or tubes. On dead branches, etc. (Fig. 84)

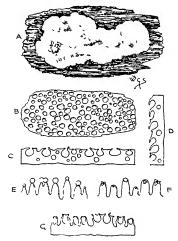


Fig. 84—v. I or other in m fimbratum F1 one half ratual size B pores C section when grown horizontally b ditto when grown vertically x to E P Friesii Mont, papille from a damp position + in the form a damp position + in the form a damp cannot be set on the form a damp cannot be set of the form a

,Closely allied to Fistulina, with which it agrees in the fimbriate mouths of the free tubercles or tubes. The tubes frequently distil drops of fluid in damp positions. The appearance commonly somewhat resembles effused groups of minute Æadia.

Species 1682—1686

Massee places this genus in Hydnacca

Fries has made Solema follow Porothelium, but in Solema each cup or cylinder is a complete plant, not a mere tube To find a place in the Polyporacaa each cup should be furnished with tubes. The true place for Solema is after Cyphilla in the Theliphoracaa

1682 P fimbriatum Fr (from the fimbriate margin of the subiculum)

Sub separable Pa hemispherical, immersed, small, biscuitcolour, marg broad, barren, fimbriate, white

Birch, beech 3\frac{2}{3} in General appearance much like the pore surface of a minutely pored resupinate Polyronic Pa sometimes distant. Often with extensive barren places on subsculum

1683 P Friesii Mont (after Elias Fries) a b c

Sub less fimbriate than 1682 Pa hemispherical, immersed, somewhat larger than in 1682, varying from minute to larger, ivory or pale brown

Pine, juniper Sept -Feb 3 in

1684 P Stevensonii B & Br (after the Rcv Dr John Stevenson) a Sub somewhat thick, gelatinous Pa elongate, whitish or pale yellowish, each bearing a diaphanous, yellow globule, marg rather coarsely hispid, then more or less denuded

Pine, squared pine 3\$\frac{1}{2}\$ in The mycelium imparts a sweet scent to the wood

1685 P Keithii B & Br (after the Rev Dr James Keith) Sub adnate, gelatinous in centre Pa short, collapsing, pallid, marg very thin, at first somewhat gelatinous

Dead fir April

1686 P confusum B & Br (from its having been confounded with other members of the genus)

Sub adnate, at first floccoso-pulverulent Pa very small, pallid, marg thin, arachnoid

Fir sticks June-Sept

FAM III HYDNACEÆ.

Hymenium inferior in the stipitate and dimidiate species, superior in the resupinate series, bearing from the first persistent spines, teeth, tubercles, papillæ or wart-like folds

Basidia tetrasporous except in Knaifia, where they are monospoious, Mucrondla, which has been described as monosporous, is sometimes tetrasporous Species 1687—1780

KEY TO THE GENERA

Pileate Gelatinous Fleshy Feeth flattened, irregular	71 TREMELLODON 72 SISTOTREMA
Pileate or resupinate Fleshy Spines acute, distinct at base	70 HIDIUM
Resupinate Hymenium bearing somewhat acute teeth which spring	•
from folds or ridges Hymenium bearing teeth in the form of coarse	73 IRPEX
deformed tabercles	74 RADUIUM
Hymenium covered with folds or wrinkles	75 PHLEBIA
Hymenium covered with granules—	• •
Apices excavated	76 GR NDINIA
Apices penicellate	77 ODONTIA
Hymenium covered with minute acute spicules	78 KNEIFFIA
Hymenium bearing teeth in the form of long scattered usually distant bristles. Subjudium nearly	
obsolete	79 Microvella

LXX HYDNUM L

(From the Greek name for a truffle, hydnon, appropriated without reason by Linnæus for this genus)

Hymenium inferior in the first four series, superior in the fifth Spines awl-shaped, acute, distinct at the base (Fig 85)

Species 1687—1745

MESOPODÆ Stem central Terrestrial, chiefly in pine woods

a Carnosæ Pileus fleshy, somewhat fragile, stem solid Mostly edible

Pileus scaly or tomentose Spinis changing colour

1687---1690

Pileus even, smooth Spines changing colour 1691—1698 Spines unchangeable, unicolorous, whitish, or pale shades of ochre, buff or brownish 1694—1697

b Lignosæ Pileus corky or coriaceous

Spines changing colour, and, as well as the spores, somewhat fuscous 1698—1700

Spines changing colour, and, as well as the spores, ferruginous 1701, 1702

Spines unchangeable, spores whitish 1708—1706

PLEUROPOD &

Stem lateral, somewhat dimidiate

1707

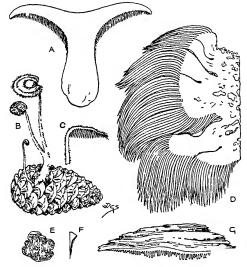


Fig. 85—A Hydrum ripandum L section one-half natural size B H annicalphin L entire one half initial size. C ditto section through pileux natural size B H annicana Full section one half natural size F H achievem Persentire one half natural size F, ditto section one half natural size G H syndrium Fr section one half natural size G H syndrium F

MERISMATÆ Branched

Very much branched 1708
Simple, as seen without cutting, tuberculiform, immarginate, but slightly branched as seen in section 1709, 1710

APODÆ Stem absent

Pileus fleshy, soft 1711—1718
Cæspitose Pilei imbricate, commonly pliant, tough 1714
Simple Pileus coriaceous or corky 1715

RESUPINALE Pileus none Spines vertical or oblique according to situation

51144151	
Spines fuscous, ferruginous	17161723
Spines yellowish, greenish	1724—1736
Spines flesh-colour, lilac, rufescent	1737, 1738
Spines white, or light yellowish when old	17391745

375

MESOPODÆ

a Carnosa

- 1687 H imbricatum L (from the imbricate scales of the pileus) a b c
 - P at length depressed, rich, dark claret-brown, the innate sc exposing the paler flesh St even, whitish or yellowish-claret-brown, base as P St decurrent, pale brownish-biscuit Flesh pale claret-brown in upper part of P, white elsewhere

Usually single Said to be eithble Taste when cooked like tough liver, bitter, disagreeable Amongst firs rare Sept -Nov $9\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ in

- 1688 H squamosum Schæft (from the scaly pileus, squama, a scale) a
 - P at length depressed, breaking up into rough irregular sc, brownish or vinous-salmon, sc brownish St equal or attenuate downwards, somewhat scaly, pale- or brownish-buff, sometimes darker below Sp decurrent, purplish-salmon Flish pale purplish-salmon, almost white

Often connate — Amongst mosses in pine woods — Sept. Oct $2\frac{3}{4} \times 1\frac{1}{2} \times \frac{5}{8}$ in

- 1689 H scabrosum Fr (from the rough, scaly pileus, scabrosus, rough) a b
 - P turbinate, then plane, usually uneven, squamulose, pale vinousumber, mid darker marg white, so umber St attenuate downwards, vinous, umber or cinereous, blackish at base Sp decurrent, buff-ivory, or ferruginous with a grey fuscous effect Flesh salmon-ivory

Usually single Woods, pine Sept 4 x 11 x 1 in

1690 H molle Fr (from the down) pileus, mollis, soft) a c White P at length devressed, tomentose St almost equal Sp decurrent Flish pale, brownish-white

Woods, pine $4\frac{1}{2} \times I_{8} \times I$ in

1691 H lævigatum Swartz (from the smooth pileus lazis, even) a b

P at length depressed, pale yellowish-umber St equal, whitish
above, colour as P below Sp decurrent, pale brown

Woods, pine Aug -Nov 4½ × 15 × 1 in Sometimes occurs three times the size of drawing becoming more or less black in drying

1692. H. fragile Fr (from its fragility) a b

- 'P at length depressed, at first pubescent, then smooth and subsquamulose, yellowish-brown to reddish-brown-buff, zoned darker St unequal, greyish, brownish-grey or as P, sometimes vinous-brown below Sp decurrent, ivory-grey or dull pale grey-ochre Flesh pale brown or pale vinous, darker at base of St
- Odour of curry powder Woods, pine, amongst heath, rare Sept -Nov 48 × 28 × 1 m
- 1698 H fusipes Pers (from the fusiform stem, fusis, a spindle, pes, a foot) a
 - P fibrous, tough, lobed, becoming subdepressed, cold umber to deep claret-brown, marg paler, sometimes with a narrow white edge St colour as P, usually paler St decurrent, very short, salmon- or brown-whitish Flish white or shaded, pale salmon or brownish

Woods, pine Sept 21 × 11 × 11 in

- 1694 H repandum L (from the repand pileus in old examples)
 - P somewhat smooth, rarely floccoso prumose, pale buff St almost equal, paler than P Sp decurrent, colour as St Flish white, becoming as P
 - Subgregations Sometimes in ring. Edible, but requires stawing slowly for four hours. Woods, common. Aug.-Nov. $4\frac{7}{8} \times 1\frac{3}{4} \times 1$ in Becoming wholly ochre or orange in drying
- 1695 H rufescens Pers (from the rufescent colour) a c
 - P thin, somewhat lobed, pulvinate to plane, pubescent, buff, orange-brown or brown St almost equal, frequently excentric, pale yellowish, yellow- or bright-cinnamon St adnatodecurrent, pale ochre to bright cinnamon Flesh white to pale rufescent

Sometimes connate Woods, frequent Sept 32 x 31 x 1 m

- 1696 H acre Quel (from the acrid taste) a
 - P turbinate, flattish, pale yellowish, olive shaded, mid darker St equal, colour as P or darker Sp decurrent 1 in, colour as P Flesh pale yellowish, greyish or pale brownish
 - Taste bitter acrid Woods, pine, chestnut, sandy places Poisonous 5 × 11 × 1 m
- 1697 H fuligineoalbum Schmidt (from the smoky-whitish stem,
 - fullyo, soot, albus, white) a c
 P convex, becoming depressed, repand, squamulosc, sc brownish on an umber-white ground St scaly, dull salmon Sp decurrent, pale vinous-brown Flesh white, clouded pale rosy-brown or pale sienna
 - Woods, pine, pastures near woods 41 × 13 × 3 in Becoming dull vinousbrown in drying

b Lignosæ

- 1698 H compactum Pers (from its compact substance) a b c
 - P irregular, plane, tuberculose, orange-sienna or umber, sometimes ivory, shaded grey St irregular, tuberculose, orangesienna or umber Sp decurrent, salmon-brown Flesh zoned brown and bright blue, or ivory and pale blue, the blue gradually becoming indigo
 - Often confluent and misshapen Amongst firs, heather, etc Aug-Nov $3\frac{1}{8} \times 1\frac{1}{2} \times 1\frac{1}{4}$ in Becomes blackish in drying
- 1699 H aurantiaeum 1 & S (from the colour, aurum, gold) a b c P convex or turbinate, becoming flat, rugged, yellowish-orange or vellowish-sienna, buff when young St sienna-orange above, deep sienna below Sp decurrent, white to ivoryochre, sometimes orange near St Fish pale dull orange
 - Inodorous Woods, pine Sept-Nov 23 x 11 x 3 in Becoming vinous brown in drying
- 1700 H ferrugineum Fr (from the rust-of-iron colour, ferrum, iron) a c
 - P flat or slightly depressed, rugged, sienna-umber, at first downy, exiding blood-red drops St unequal, pale ochre, umber or slate St decurrent, reddish salmon Flish pale yellow, vertically brown-steaked
 - Often confluent, woods involving fir leaves, stass, etc. Frequently connate Woods, pine, under ling Aug –Oct. $4\frac{1}{2} \times 1\frac{1}{4} \times 1$ in
- 1700a H cinereum Bull (from the grey pileus and spines, cinis, ashes)
 - P corky to woody, becoming infundibuliform, covered with small elevations villous, white to grey, varying vinous or umber St somewhat ventricose, vinous-ivory, somewhat brown below St decurrent, short, white to grey and pale olive-brown Flish white, vinous-buff below
 - Often connate Woods Sept 23 x 2 x 5 in
- 1701 H serobiculatum Fr (from the pitted pileus, scrobis, a trench) a b c
 - P rugged, tuberculose, downy, mid, tubercles and marg deep senna on a salmon ground St rugged, unequal, smooth, often rooting, vinous-salmon above, vinous-blackish below, or umber Sp decurrent, colour as P or lighter Flish vinous-salmon, zoned vinous-brown
 - Involving pine leaves, etc. Often connate. Woods, fir, amongst ling Aug-Nov. $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{3}{4}$ in
- 1702 H zonatum Batsch (from the frequently zoned pileus) a b c
 - P depressed, mid rugged-squarrose, marg radiato-rugose, i-iz zoned, z sometimes nearly obsolete, ferruginous St unequal, rugged, floccose, colour as P St decurrent, small, slender, pallid to ferruginous Flesh rich vinous-brown
 - Commonly involving moss, leaves, etc., sometimes full of embedded fir leaves, fragrant Woods, fir, oak, rare \ug-Nov 2\frac{1}{4} \times 1\frac{1}{8} \times \frac{1}{8} in

1692. H. fragile Fr (from its fragility) a b

- 'P at length depressed, at first pubescent, then smooth and subsquamulose, yellowish-brown to reddish-brown-buff, zoned darker St unequal, greyish, brownish-grey or as P, sometimes vinous-brown below St decurrent, ivory-grey or dull pale grey-ochre Flesh pale brown or pale vinous, darker at base of St
- Odour of curry powder Woods, pine, amongst heath, rare Sept-Nov 4\frac{3}{4} \times 2\frac{3}{4} \times 1 in
- **1698 H fusipes** Pers (from the fusiform stem, *fusis*, a spindle, *bes.* a foot) *a*
 - P fibrous, tough, lobed, becoming subdepressed, cold umber to deep claret-brown, marg paler, sometimes with a narrow white edge St colour as P, usually paler St decurrent, very short, salmon- or brown-whitish Flish white or shaded, pale salmon or brownish

Woods, pine Sept 21 × 11 × 11 in

- 1694 H repandum L (from the repand pileus in old examples)
 a b c
 - P somewhat smooth, rarely floccoso prunose, pale buff St almost equal, paler than P Sp decurrent, colour as St Flish white, becoming as P
 - Subgregations Sometimes in rings Edible, but requires stawing slowly for four hours. Woods, common Aug.-Nov. $4\frac{7}{8} \times 1\frac{3}{8} \times 1$ in Becoming wholly ochre or orange in drying.
- 1695 H rufescens Pers (from the rufescent colour) a c
 - P thin, somewhat lobed, pullinate to plane, pubescent, buff, orange-brown or brown St almost equal, frequently excentric, pale yellowsh, yellow- or bright-cinnamon St adnato-decurrent, pale ochre to bright cinnamon Flesh white to pale rufescent

Sometimes connate Woods, frequent Sept 32 x 34 x 1/2 in

- 1696 H aere Quel (from the acrid taste) a
 - P turbinate, flattish, pale yellowish, olive shaded, mid darker St equal, colour as P or darker Sp decurrent 11 in, colour as P Flesh pale yellowish, greyish or pale brownish
 - Poisonous Taste bitter acrid Woods, pinc, chestnut, sandy places $5 \times 1\frac{1}{4} \times 1$ in
- 1697 H fuligineoalbum Schmidt (from the smoky-whitish stem, fuligo, soot, albus, white) a c
 P convex, becoming depressed, repand, squamulose, sc
 - P convex, becoming depressed, repand, squamulose, sc brownish on an umber-white ground St scaly, dull salmon Sp decurrent, pale vinous-brown Flesh white, clouded pale rosy-brown or pale sienna
 - Woods, pine, pastures near woods 4½ × 1¾ × ½ in Becoming dull vinousbrown in drying

b Lignosæ

- 1698 H compactum Pers (from its compact substance) a b c
 - P irregular, plane, tuberculose, orange-sienna or umber, sometimes ivory, shaded grey St irregular, tuberculose, orangesienna or umber Sp decurrent, salmon-brown Flesh zoned brown and bright blue, or ivory and pale blue, the blue gradually becoming indigo
 - Often confluent and misshapen Amongst firs, heather, etc Aug -Nov $3\frac{1}{8} \times 1\frac{1}{2} \times 1\frac{1}{4}$ in Becomes blackish in drying
- 1699 H aurantiaeum \(\& \text{S} \) (from the colour, aurum, gold) a b c

 P convex or turbinate, becoming flat, rugged, yellowish-orange
 or yellowish-sienna, buff when young St sienna-orange
 above, deep sienna below Sp decurrent, white to ivoryochre, sometimes orange near St Fksh pale dull orange

Inodorous Woods, pine Sept-Nov 23 x 11 x 3 in Becoming vinous brown in drying

- 1700 H ferrugineum Fr (from the rust-of-iron colour, ferrum, iron) a c
 - P flat or slightly depressed, rugged, sienna-umber, at first downy, exiding blood-red drops St unequal, pale ochre, umber or slate St decurrent, reddish salmon Flich pale yellow, vertically brown-steaked
 - Often confluent, woods, involving fir leaves, grass, etc. Frequently connate Woods, pine, under ling Aug-Oct. $4\frac{1}{5} \times 1\frac{4}{5} \times 1$ in
- 1700a H cinereum Bull (from the grey pileus and spines, ams,
 - P corky to woody, becoming infundibuliform, covered with small elevations villous, white to grey, varying vinous or umber St somewhat veatricose, vinous-ivory, somewhat brown below St decurrent, short, white to grey and pale olive-brown Flish white, vinous-buff below

Often connite Woods Sept 23 x 2 x 5 in

- 1701 H scrobiculatum Fr (from the pitted pileus, scrobis, a trench) a b c
 - P rugged, tuberculose, downy, mid, tubercles and marg deep senna on a salmon ground St rugged, unequal, smooth, often rooting, vinous-salmon above, vinous-blackish below, or umber Sp decurrent, colour as P or lighter Flish vinous-salmon, zoned vinous-brown

Involving pine leaves, etc. Often connate Woods, fir, amongst ling Aug -Nov $1\frac{1}{4} \times 2\frac{1}{4} \times \frac{3}{4}$ in

- 1702 H zonatum Batsch (from the frequently zoned pileus) a b c
 - P depressed, mid rugged-squarrose, marg radiato-rugose, 1-12 zoned, z sometimes nearly obsolete, ferruginous St unequal, rugged, floccose, colour as P Sp decurrent, small, slender, pallid to ferruginous Flesh rich vinous-brown
 - Commonly involving moss, leaves, etc., sometimes full of embedded fir leaves, fragrant Woods, fir, oak, rare Aug-Nov $2\frac{1}{4} \times 1\frac{8}{8} \times \frac{8}{8}$ in

- 1702a H Queletti Fr ex Quél (after Di Lucien Quelet) a
 - *P fleshy, corraceous, plane, then depressed, zoneless, or with one zone, somewhat rugoso radiate, vinous-sienna, darker at mid, marg white St colour as P, paler above Flish pale salmon-umber

Often connate On the ground in woods Oct 2 x 1 x 3 in

- 1708 H nigrum Fr (from the blackish colour, mger, black) a b c
 - P turbinate, rugged-tubercular, tomentose, lavender-grey, purple or blackish blue, z 2-5, deep purple St unequal, lavender-umber, shaded umber, to black Sp decurrent lavender-whitish, greyish or puiple Flish slate or deep purple
 - Often connate Woods, pine Sept -Nov 24 x 11/2 x 4 in
- 1704 H graveolens Fr (from its strong odour, gravis, strong, oleo, to smell) a b c
 - P thin, zoneless, smooth, rugose, depressed, pale to dark umber or black-fuscous, marg paler of whitish St εqual, smooth, colour as P Sp decurrent, grey Fl.sh umber
 - Usually exspitose and confluent, rarely solitary Odour heavy, spicy sweet, like curry powder. Woods, fir, oak rare Sept.—Nor 1½×2×½ in Varied in shape and size, sometimes spathulate. Examples gathered in 1855 retained their odour in 1901. Stem sometimes sery short
- 1705 H melaleucum Fr (from the black pileus and white spines, Gr melas, black, leukos, white) a c
 - P thin, plane, depressed, slate blackish or slate-brownish or dark brown-grey 1 darker, marg whitish when young pale umber with white marg \$1 smooth, ashy-grey to slate-blackish \$1 adnato-decurrent, white or whitish \$1 Flish umber-white to slate
- Sometimes cuspitosa Odour none Amongst pines Supt $1\frac{d}{2} \times 1\frac{1}{6} \times \frac{7}{6}$ in 1706 **H cyathiforme** Schæff (from the pileus, sometimes cupshaped, c_1athus , a cup, forma, form) $a\ b\ c$
 - P thin, plano-infundibiliform, tomentose, somewhat rugged at mid, brown-whitish to dark claret-brown, marg sometimes white-tomentose z 3-11, darker, when dry very glossy St unequal, smooth, sometimes almost obsolete, colour as P or darker St adnato-decurrent, dull salmon or salmon-grey
 - Sometimes connate Woods, fir Aug -Nov 23 × 13 × 3 in With the exception of the spines, sometimes much like 1525

Plf uropoda.

- 1707 H auriscalpium L (from the shape of small examples, auriscalpium, an ear-pick) a b c
 - P thin, coriaceous, reniform, hispid-hairy, brownish-salmon or brown, sometimes blackish, z darker St rooting, hispid, often branched, colour as P St white, salmon or brown Flesh pale umber or salmon-white
 - Sometimes springing from thick rhizomorphoid growths with stems sometimes without pile. Fir-cones, fir leaves May-Dec. $\frac{7}{8} \times 2 \times \frac{1}{15}$ in

MERISMATA

- 1708 H coralloides Scop (from its appearance, like branched white coral Gr λorallion, coral, eidos, appearance) a b ι
 - Much and narrowly branched, wholly white, becoming faintly buff or yellowish S_{7} $\frac{1}{16}$ to $\frac{1}{8}$ in long
 - Trunks, beech, birch, ash, oak, etc., rare Oct 12 x 7½ in Sometimes dark brown when dry
- 1709 H ernnaceus Bull (from a fancied resemblance, when young, to a hedgehog, crunacus) a b c
 - Slightly and broadly branched, wholly white, becoming pale yellowish S_p I_2^1 to 2_4^2 in long, pendulous in large tutts Flesh branched, cancellate
 - Taste mild I runks, onk, beech, hornbeam, alder, etc. rare Sept. Nov 13 × 13 in Sometimes dark brown when dry Sometimes very Jarge and heavy, weighing 22 lbs or more
- 1710 H caputmedusæ Pers (from a fancied resemblance to Medusa's head caput, a head) a b c
 - In connate, tuberculiform groups, ! to 1 len long, growing in various directions in matted locks as of hair, substitutate wholly white or ivory, becoming grey

Trunks rare Diam 64 in

- 1710a H Schiedermayeri Heuf (after K B Schiedermiver) a

 Fleshy, immarginate ivory-white becoming buff when old Sp

 T to 1 in long Flesh somewhat cancellate pale sulphur, becoming buff below when old
 - Connato imbrigate Growing from cracks in bark of old apple trunks. In connato imbrigate $_{z}$ coups of various sizes each example $1\frac{1}{2}\times 1$ in Groups 6 \times 3 or 4 in

APOD E

- 1711 H cirrhatum Pers (from the pileus, clad with small cuils, like little locks of hair (1718), a cuil) a b c
 - P pulvinate, expanded, dark biscuit-colour marg fimbriate S_P to $\frac{1}{2}$ in long, paler than P Flish paler than P
 - Imbricate or simple Trunks beech Aug Group 7 in Diam 5½ in Sometimes durk brown when dry
- 1712 H diversidens Fi (from the spines, differing from the scale-like growths on the pileus diversus, diverse, dens, n tooth) a be Wholly biscuit colour, pale to dark
 - P somewhat lobed thick, beset with small variously shaped sc Substipitate, obscurely branched Tregularly imbricit. Trunks, hornbeam, oak, beech, birch Oct Drim 51 in One cause of "white rot"
- 1718 H pulcherrimum B & Curt (from its appearance, pulcherrimus, very beautiful) a c
 - P pulvinate, fleshy-fibrous, spongy-soft, dimidrate, expanded,

stiffly-downy, white, shaded, pale tawny, marg thin, lobed ' $S\!P$ variable in size, $\frac{1}{2}$ to $\frac{1}{8}$ in , tawny

Subimbricate Oct Diam 13 in

1714 H multiplex Fr (from the many folds of the pileus, multus, many, plato, to twist) a c

P thin, leathery, deeply folded, spathulate, velvety, rich brown $Sp_{1}l_{r}$ in long, crowded, very slender, grey, shaded brownish Flesh bright brown, paler than P

Imbricate Group 4½ in in dram

1715 H ochraceum Pers (from the ochreous colour) a b c

Sub thin P when present, thin, pale ochreous, toned, usually resupinate or with marg slightly upturned and forming more or less perfect connate pilei Sp very small, somewhat blunt, ochreous flesh-coloui, orange-buff, sometimes fawn, rarely dull crimson

Trunks, oak, branches, fir leaves, bramble, apple, moss, common Oct-April Diam 5 in Readily separating from matrix

Resupinalæ

1716 H squalinum Fr (from a fancied resemblance in the spines to sharks' teeth squalis, a shark) a c

Sub adnate, cornaceous, pale yellowish-fawn Sp entire, stout, compressed, rounded at apex, 10 in long, colour as Sub Trunks, beech Drim 23 in

1717 H fuseoatrum Fr (from the dusky-black clouding, fuseus, dusky ater, black) a c

Sub a thin film, glaucous, flocculoso-prumose, salmon-umber, mid darker, oi dark brown shading into sienna and brown-ochre at marg Sp short, conico-subulate, acute, colour as Sub

Rotten wood, birch, beech, alder Diam 23 in

1718 H membranaceum Bull (from the membranous subsculum)

Sub an effused waxy membranous film, pale vinous sienna, marg lighter Sp awl shaped, crowded, acute, short, darker than Sub

Fallen sticks, pear, frequent Ian Diam 27 in

1719 H molluseum Fr (molles, soft, in reference to the thin subiculum)

Sub membranous, dry, readily separable from the matrix, whitish Sp short, slender, reddish

Wood Distinguished from 1718 by the dry white subiculum, separating from the matrix

1720 H Weinmannii Fr (after J A Weinmann, mycologist) a b c
Sub effused, waxy-membranous, agglutinate, fawn-grey, pale
slate, or umber and white Sp minute, acute, somewhat

distant, sometimes collected in small groups or fascicles, slate, somewhat umber, apex white

Fallen branches, ash, oak Oct -April Diam 4½ in When dry cracking and becoming full grey or fawn to deep brown or almost black

1721 H erinale Fr (from the slender hair-like spines, crinis, a hair) a

Sub effused, villoso-interwoven, thin, sienna ochre Sp \frac{1}{\sigma} in long, crowded, very slender, sienna-umber or rufous-brown

Dead wood , rare Dimm 33 in The hair like spines resemble those of Mucronella

1722 H ferruginosum Fr (from the rust-of-iron colour, firmum, iron) a c

Sub effused, submucedinous, separable from matrix, tawny, ferruginous Sp crowded, conico-awl-shaped, acute, colour as Sub

Decayed wood, e-pecralls under bark, tarels on the ground July-Oct Drum 2 in Sometimes merc coincidal forms of other fung, as Isaria amongst the Hyphomycetes, or 1780 are mistaken for this plant

1723 H variecolor Fr (from the varying colours) a b c

Sub effused, adnate, forming a furfuraceous crust, white, becoming cream, sienna and sienna umber in drying, sometimes resembling white miniature clouds, marg finely white-fimbriate Sp crowded, coincal, short, or minute with a ragged appearance, but here and there longer and more typically Hydnumlike, commonly adpressed, colour as Sub

Dead stumps, oak rare Oct Diam 33 in

1724 H aureum Fr (from the colour, aurum, gold) a

Sub somewhat cartilaginous, jagged-radiate marg irregular, narrow, byssoid Sp often developed in small patches, awlshaped, colour as Sub

Dead branches Dec Diam 54 in Appearance meruhoid Mycelium permeating wood and causing defined yellowish flesh coloured spots

1725 H denticulatum Pers (from the slightly toothed spines dens, a tooth) a

Sub thin, somewhat fleshy, mealy, shining light-yellow-ochreous or olive-ochre, sometimes clouded pale brownish rose Sp crowded, equal, minutely 2-3 toothed at the whitish apex.

Rotten wood Tune. Diam 28 in

1726 H alutaceum Fr (from the colour, like tanned leather, aluta) a b c

Sub crustose, adnate, very thin, pallid ochreous, pale brownishyellow or biscuit Sp acute, very minute and short, here and there a little longer and typically Hydnum-like, colour as Sub, marg barren

Dead wood, pine, rare Nov Diam 41 in Kesembling 1770

1727, H sulphureum Schwein (from the sulphur-colour) a

Sub effused, adnate, membranous, colour paler at mang and gradually fading into the colours of the bark, mang bairen, by ssoid Sp minute, few, subulate

Dead wood, birch Dram 4 in The barren spineless form can hardly be distinguished from 1890

1728 H sordidum Wennn (from the dings colour sordidus, dists) a
Sub effused, thin, mucid, easily separating, dings yellow, marg
gyroso porous, sulphur-yellow Sp vers crowded, somewhat
gelatinous, compressed, incised, subacute, colour as Sub

Dead wood Nov Diam 31 in Becoming dull reddish in drying

1729 H viride Fr (from the colour, ziridis, green) a

Sub effused, thin, softly velvety, somewhit pale leaf-green, becoming yellowish marg in places slightly upturned St stout, short, somewhat thick, irregular, somewhat incised, colour as Sub

Rotten wood, alder Diam 34 in Sometimes effused for 8 to 10 in

1730 H limonicolor B \otimes Br (from the lemon colour *Citrus Limonum*, the lemon) a

Sub adnate, scanty Sp crowded, short, neute Myc scanty or obsolete, when present shining-white

On stone buried amongst pine leaves Oct Diam 3 in Distinguished from 1736 by the scanny subiculum and the absence of a persistent barren white margin

1731 H pinastri Fr (from the habitat, pines, pinus) a c

Sub effused, membranous, fleecy or minutely hispid, separable, light yellow, ivory or biscuit, marg lighter villous beneath Sb equal, subulate, acute, in groups, oblique in different directions, pale brown

Mossy bark, wood, pine Dinm 41 in

1732 H spathulatum Fr (from the spathulate spines) a

Sub effused, membranous, separable, yellowish marg fimbriate, villous beneath Sp very small, oblique, obtuse, orange

Dead wood, Robinia rare Jan - Dec Diam 3½ in Often in clacks in bark

1733 H multiforme B & Br (from its many forms, multus, many, forma, form)

Sub inseparable, at first wholly barren, then here and there fertile, ochreous-white, texture floccoso-menly marg coarsely fibrillose Sp very acute, crowded, becoming pallid and fimbrate

Dead wood Very variable, sometimes almost tow like with margin inflexed Perhaps a Corticium, as the spines when present are barren

1734 H anomalum B & Br (from the anomalous spines) a b

Sub thin, gelatinous, pallid, light-yellow Sp minute, at first in the form of granules, then stipitate and obtusely divided, few, but here and there more, colour as Sub

Rotten wood, ash Mar Dram 21 in With immersed ovate or circular

- vescicles Brown when dry Near Mucronella and perhaps not a true Hydnum
- 1735 H melleum B & Br (from the honey-colour, mel, honey) a c Sub thin, effused, pulverulent, marg delicately flaxy Sp acute, minute, sometimes divided at apex with a tendency to grow in groups, partially pulverulent

A doubtful Hydnum On ruls on the ground Dram 41 in

- 1736 H sepultum B & Br (from its habitat, sepultus, buried) a

 Sub golden, marg white Sp acute to obtuse, minute to
 medium size
 - On wood, bark and stones buried amongst pine leaves. Sept. $\frac{1}{8}$ to $\frac{6}{8}$ in diam. Forming little scattered patches. Pale ochrous when dry
- 1737 H udum Fr (from its moist substance, udus, moist) a b c
 Sub effused, thin, subgelatinous, agglutinate to matrix, fleshcolour to watery yellowish, sometimes bright sulphur
 Sp acute, 2-3 forked, small, but varying in length, crowded,
 arranged in groups, very small near the barren marg, colour
 as Sub
 - Dead branches, willow, oak, alder, frequent Sept April Diam 5½ in Forming large patches
- 1738 H bicolor A & S (from the white subsculum and brown spines bis, two, color, colour) a c
 - Sub widely effused, tomentose, adpressed, thin, white, marg broadly barren Sp minute, white-villous, naked at acute apex, paleaumber to rufous-brown

 Bramble, fir Varch Dram 2 in
- 1738a H Hollii Fr (after F Holl) a
 - Sub adnate, effused, wasy membranous, whitish-brown marg finely powdery Sy very minute, blunt, deformed

On naked wood Oct 4 x 24 in

- 1739 H nodulosum Fr (from the nodulose subiculum) a
 - Sub brondly effused, crustaccous, nodules (less in size than a pea) sterile above, furnished with spines below, whitish to pallid yellowish Sp free and pendulous below nodules, adnate and elongate on the interstices, colour as Sub

Frunks, stumps, fir Oct Diam 4 in

- 1740 H Stevensonii B & Br (after the Rev Dr Tohn Stevenson) ac Sub effused, menly beneath, here and there flaxy, white Sp minute, crowded, cylindrical, obtuse, pulverulent at apex, colour as Sub
 - Dead wood, sometimes spreading and encrusting mosses, leaves, etc. March Diam 1½ in Having the appearance of a resupinate Polyporus
- 1741 H plumosum Duby (from the plumose apex of the spines) a c Sub very delicate, downy, white Sp very small, divided, colour as Sub
 - Dead wood, pine, rare. Diam 13 in Cracking when dry and becoming wory brown

1742 H niveum Pers (from the snow-white colour, nix, nivis, snow) a b c

Sub effused, thin, membranous, lustrous, adnate, marg fibrillosoflaxy Sp at first granulose, then acutely pointed, smooth

Dead wood, leaves pine, birch, beech, uncommon Nov - April Diam 21 in Persistent Ochreous or sulphur white when dry

1743 H farinaceum Pers (from the mealy subiculum, farina, meal) a b c

Sub effused, indeterminate, adnate, white, marg subflocculose Sp thin, subdistant acute, interstices finely farmose, colour as Sub

Dead wood, fir, oak Sept - May Diam 5 m Varying pule brownish, pale yellowish, or sulphur or ochre white

1744 H argutum Fr (from the acute spines argutus, acute) a b c

Sub effused in scattered patches, tomentoso-interwoven, spongy, adnate, white Sp acute, awl-shaped unequal, slightly serrate, colour as Sub

Wood and bath, idder, willow Sept Diam 21 in The hymenium has a finely mossy appearance from the unequal divergent spines. Becoming colour of coffee with mill when dry

1745 H stipatum Fr (from the crowded spines slipatus, crowded) a c Sub widely effused flocculoso-farmaceous, forming an adnate crust, white to brown-white or light vellowish \$\sigma_r\$ at first granulose then forming obtuse teeth, colour 18 Sub

Rotten wood Dec-Jan Diam 31 in Has the appearance of a resupinate Polyporus

LXXI TREMELLODON Fr

(From its resemblance to a Tremella Gr odeus a tooth)

Gelatinous, pileate, hymenium inferior covered with acute awlshaped spines Basidia ovate, somewhat obliquely 2-4 divided

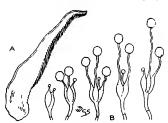


Fig. 86 — Trimellodon gelatinosum Fr A section one half natural size B basidia sterigmata and spores X 500

almost to the base, sometimes undivided for twice the length of the spore, sterigmata 1-5 lengths of spore (Fig 86)

Mr Fred Currey (Journ Linn Soc vol v p 181, 1861) was the first to call attention to the cloven basidia in this species, and to point out the resemblance in the first to some of the Trencllinacea. Mr George Massee (British Fungus Flora, vol 1 p 65) has placed Trencllodon at the end of the Trencllinacea, but the nature of the basidium and sterigmata is an insufficient reason for the removal, and if adopted many other removals would have to be made

1746 T gelatinosum Fr (from the gelatinous substance) $a\ b\ c$ Wholly translucent, grey-white

P fan-shaped, fleshy, dimidiate, substitutate, white-frosted with shining particles St when present, white-frosted above

Taste pleasant Rotten pine, sawdust, rare Sept-Nov 31 x 31 in

LXXII SISTOTREMA Pers

(From the irregular arrangement of the spines and their interstices, as if displaced, Gr seistos, shaken, thema, a pore)

Pileus fleshy, irregular or dimidiate Hymenium inferior Teeth resembling broken, jagged gills, not radiate, readily separating from



Fig. 87 —A, ection of Vistotrin a confluent Pers, one half natural \sim 2e B teeth of ditto \times 3

the hymenophore Stim central, excentric, flattened or almost obsolete Basidia 4-spored (Fig 87)

Closely allied to *Irpex*, but the latter is not fleshy and is usually sessile or resupinate and seldom terrestrial

1747 S confluens Pers (from the confluent habit) a b c Wholly white or whitish, becoming pale yellowish or brownish

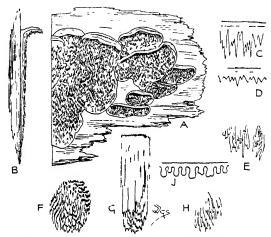
P horizontal, subdepressed, villous St attenuate downwards Sp decurrent

Gregarious On the ground, investing sticks, leaves, moss, grass, etc., under pines, uncommon Sept-Nov Group 23 × 13 in

LXXIII IRPEX Fr

(From a fancied resemblance in the fruiting surface to the teeth of a harrow, 117/12)

Hymenium inferior, toothed, teeth firm, somewhat coriaceous, acute—spathulate in 1753—concrete with the pileus or subjculum,



arranged in irregular rows, like broken gills or broken honeycomb, connected at the base by veins or folds Basidia 4-spored (Fig. 88) Generally growing on wood, somewhat sessile or resupinate, approaching Lenzits and Dadalia Species 1748—1756

Pendulous, with the pileus extended behind

Pendulous, with the pileus extended behind 1748 Effuso-reflexed, marginate 1749—1751

Resupinate 1752—1756

1748 I pendulus Fr (from the pendulous habit) a c

P membranous, slightly rugose or plicate, adpressedly squamuloso-pilose, light yellow to white-brown T_{ℓ} in rows, large, incised, white

Sticks, pine, larch, spreading on to moss, rare 1§ in , group 2½ in Must not be confounded with 1757

- 1749 I fuscoviolaceus Fr (from the brown-violet colour of the teeth, fuscus, brown) a b c
 - P coriaceous, silky, zoned, brown-white to ochre-white, zoned brownish Te in rows in the form of much incised plates, of the purple-slate-whitish tint seen in the gills of some Pratella

Single to imbricate Pine, beech, rare $2\frac{\pi}{5}$ in , group $4\frac{\pi}{4}$ in Sometimes there is a considerable development of pileus

- 1750 I lacteus Fr (from the milk-white colour, lac, milk) a b c White
 - P conaceous, villous, concentrically sulcate Tc crowded, gyrose in rows, acute, somewhat incised I Irregularly porous at marg, becoming ragged at middle and base

Sometimes subimbricate Mountain ash, birch, fir, beech Nov Group $3\frac{1}{3}$ in

1751 I hypogeous Fuck (from its sometimes growing in and under earth Gr hupo, under, ge, the earth) a b c

Myc dispersed, white to yellowish Sub marg determinate, compactly byssoid, white, then pallid brown-ochreous to dark brown, hymenium often barren or exhibiting barren patches Te irregular, somewhat labyrinthiform, lax, variable in size, straight, incised 2-6 mm long, base usually compressed, colour as P

Woods, pine, investing pine leaves, twigs, grass, earth, pebbles , rare Oct Group $4\frac{1}{5}$ in

1752 I Johnstonii Berk (after Dr George Johnstone) a

Effused, cornceo-membranous, separable from matrix, marg naked, reflexed all round, white \mathcal{T}_{c} compressed, unequal, arranged in rows, resembling the spines of H_{J} dnum, but seated upon fine folds

Dead beech May be a form of 1750 $1\frac{1}{8}$ in , group $3\frac{1}{4}$ in

1752a I candidus Weinm (from the shining white colour, candidus, white) a Snow white

Broadly effused, thin, separable, arachnoid, flavy at the marg $\mathcal X$ subulate, or compressed, thin, toothed

Dead wood, pine Feb

1753 I spathulatus Fr (from the shape of the teeth, spatha, a spatula) a b c

Effused, membranous, flaxy, then smooth, white to biscuit *Te* entire, somewhat large, reticulato-connected with obsolete veins Marg sometimes obsolete, at other times broadly barren, with other barren places on hymenium Never porous Larch Nov 43 in

1754 I obliquus Fr (from the oblique teeth) a b c

Effused, forming an adnate crust, white, clouded and shaded pale sienna, marg broadly barren, circ flaxy $\mathcal{T}_{\mathcal{C}}$ extended from

a base resembling small honeycomb, compressed, unequal, incised Often with large pores near the marg

Stumps, dead branches, fir, larch, beech, birch, palms in nurseries Oct -43 in

1755 I deformis Fr (from the misshapen teeth, deformis, misshapen) a c

Effused, crustaceous, thin, white, circ pubescent, somewhat flaxy Te awl-shaped, growing from a minutely porous base, thin, somewhat incised, unevenly and partially spread over the subiculum, matrix seen between the groups of teeth

21 in Allied to the Polyporacea

1756 I carneus Fr (from its flesh-colour, caro, flesh) a b c Effuso-gelatinous, membranous, adnate, collapsing, reddish, marg barren Te awl-shaped, entire, united at the base

Wood and bark, beech Autumn 21 in Placed in Radulum by Fuckel Must not be confounded with 1720

LXXIV RADULUM Fr

(From the root-like appearance of the processes of the hymenium, radia, a root)

Tubercles distinct at the H) menum resupinate, tubercular base, coarse, irregular in shape, commonly clongate, obtuse, mostly



Fig 189 — A, Radulum guercinum Fr one half nitural size 1 ditto, section nitural size 6 tubercles of P orbicular. Fr D, ditto of R quercinum 1r E ditto of R fagineum Fr enlarged

waxy, scattered or fasciculate Basidia 4-spored Growing on wood and on and under bark (Fig 89) Species 1757—1764

1757 R pendulum Fr (from the pendulous habit) a c Longitudinally effused, thick, softly conaccous, whitish or ivory, upper marg shortly reflexed and rugose, lower marg barren Tub elongate, somewhat lax, irregular

Alder, birch, pine 5 in Must not be confounded with 1748

- 1758 R orbiculare Fr (from its frequent orbicular shape) a b c
 - Orbicular, confluent, circ flaxy, becoming waxv-fleshy, white to ochre-ivory, mid faintly vinous, marg white Tub short to long and broad to narrow, mere granules near the barren marg Birch, oak, larch, cherry, frequent Oct Viar 2½ in, group 4¾ in Ends of tubercles usually crested
- 1759 R quereinum Fr (from its habitat, oak, quercus) a b c
 - Roundish, broadly confluent, innate, crustaceous, white to ochrewhite Tub round, stout, obtuse, scattered or fasciculate, irregular in shape, floccoso-villous at apex, marg barren, edge pure white
 - Oak, sometimes on old squared oak timber Nov-Mar 3½ in Sometimes confounded with 1716, 1723 and species of Dyka
- 1760 R tomentosum Fr (from its down) appearance, especially at the margin, tomentum, down) a b c
 - Effused, innaté, somewhat thick, opaque or translucent white, circ swollen or crict, tomentose *Tub* short, crowded, angular, obtuse, smooth, confluent, resembling white tomentum, smaller at marg
 - Willow, mountain ash, pine, sawdust Dec 51 in
- 1761 R deglubens B & Br (from its hibit of peeling from the mitrix deglube to peel off) a
 - Orbicular, ferruginous somewhat diaphanous *Tub* erect, somewhat cylindrical, irregular, scattered, interstices even, pulverulent with white spoies
 - Naked wood, bank, ash $\;$ Jan $\;$ $\frac{1}{2}$ in , group 5½ in $\;$ Growing in troops of small patches
- 1762 R corallinum B & Br (from its coral-like appearance) a
 - Somewhat effused, very thin, pelliculose, shining white *Tub* fasciculate, fascicles $\frac{1}{4}$ in or more across, surrounded by barren sub, divided obtuse coralloid, white
- On partially lichen covered branches, oak Sept Fascicles 1 in , group 6 in 1763 R epileueum B & Br (from the hymenium growing upon a white subiculum (1. 1611, upon, Lukos, white) a b
 - Effused *Hym* waxy, edge slightly upturned, pale, honey-colour *Sub* forning a powdery white marg *Tub* scattered, distant, cylindrical, short, under a lens fimbriate at apex, deciduous exposing the sub
 - Decorticated wood Aug 81 in
- 1764 R fagineum Fr (from the habitat, beech, fagus) a b
 - Effused, somewhat fleshy, white or pale yellowish-brown, marg radiate with ivory-white myc *Tub* enlongate, round, varied, entire, sometimes crested, white to siemna-white
 - Chiefly on bark, rarely indefineath, sometimes on birch Nov -Mar 58 in
 - [Raudium atternmin Fr is not a Basidomycete but apparently one of the Dematica Under the microscope the appearance is that of conceptacles of Rhinotoma crownum, but it bears 1-4 septate brown spores after the manner of Cladistronum, the fruiting branches are compacted together and take the form of short, obtuse teeth, as in the compacted form of

Pentetilium named Coremium It grows on naked birch wood or bark Sowerby named his example Hydnum erectum, this grow upon a Polyporus There is no drawing by Sowerby in the British Museum collection. It has also been named Spharonema hydnudeum Fr and Hydnum atterimum Fr ?

LXXV PHLEBIA Fr

(From the veined appearance of the hymenium, Gr phleps, a vein)

Resuprnato-effused, amphigenous, wavy-soft or subgelatinous, from the first covered with crowded interrupted persistent veins which

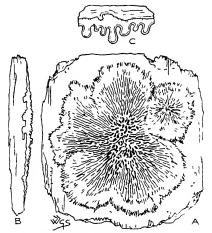


Fig 90 — A I hiel ta merismoides Fr B section of ditte two thirds natural size C vein enlarged

are entire, not jagged, at the edge, rarely anastomosing and forming pores Becoming cartilaginous or horny when dry Basidia tetrasporous (Fig 90)

Dead wood, stumps and branches

Species 1765—1769

1765 P merismoides Fr (from the resemblance of the wrinkled hymenium to that of the non-British section Merismatæ of Stereum) a b c

Whitish-orange or whitish-vermilion, mid livid, pale purplish, marg strigose, vermilion-white $V\epsilon$ simple or slightly branched, straight, crowded, never reticulate or porous

Stumps, branches, naked wood, bark, leaves, moss, grass, oak, beech, holly blum, cherry Aug -Ian 3\frac{3}{4} in

1766 P radiata Fr (from the radiate veins) a b c

Orbicular, vermilion-orange or vermilion, mid darker, marg vivid orange-whitish V_{ℓ} straight

Dead wood, birch, mountain ash, rare 2½ in, group 5½ in When in perfect condition forming somewhat large, conjoined, more or less hexagonal growths as in the carapace of a tortoise

Thinner and brighter in colour than the other British species

1767 P contorta Fr (from the intricate veins, contorqueo, to twist) a b c

Yellowish, sienna or brownish or dull red flesh-colour or redvermilion Ve conglomerate, branched, flexuous, much smaller than 1765–6. or as in Dadalea on a reduced scale

Decayed wood, furze , rare $-\frac{1}{2}$ in , mass 2ξ in Forming more or less conjoined circular patches

1768 P vaga Fr (from the wandering appearance of the veins, vagus, wandering) a b c

Adnate, waxy, dull yellowish, central parts sometimes purplish or grey marg flavy-fibrillose and powdery. Ve forming intricate wrinkles which often terminate in a granulose papilla

Dead wood, common Jan 6 in

1769 P lirellosa B & Br (from the veins, like small furrows, *lira*, a ridge or furrow) a b

Hym *eined, interstices resembling small, round or elongate pores, umber-grey to white

Dead branches, poplar 3\frac{3}{4} in Purple blackish in drving The interstices resemble the pores of Transites Sometimes confused with Dadasea

LXXVI GRANDINIA Fr

(From the granular appearance of the hymenium grando, hail)

Crustaceous, effused, thin, soft Hymenum resupinate, amphigenous, ways, not dry as in Odontia Granules small, persistent,





Fig 91 -A, Grandinia crustosa Fr, natural size
B section of duto X 10.

entire, smooth, crowded, apices not pointed as in *Hydnum*, usually indented or excavated as in *Porethehum Basidia* 4-spored (Fig. 91)

The hymenial surface is often spuriously papillose from *Sphæriæ* on the bark beneath Species 1770—1774

1770 G granulosa Fr (from the minutely granular hymenium) a b c Agglutinate, tan to sienna-ivory, marg determinate, ivory Gr small, crowded in groups, smaller at marg, hemispherical to somewhat elongate

Dead branches pine, Myrr a Gale Oct -May 5 in Cracking when dis

1771 G mucida Fr (from its waxy mucid substance) a

Subinnate, somewhat gelatinous, biscuit, marg determinate, subradiate, minutely villous, ivory white *Gr* large, unequal, soft, scattered or in groups

Rotting wood, pine, birch rare May-Nov 44 in Cracking when dry

1772. G occilata Fr (from the minute cyclet, sometimes seen at the apex of the granules *occilius*, a little eye) *a b*

Waxy, livid, rufous flesh-colour or warm brownish salmon, mais indeterminate, sterile, yellowish Gr crowded, subconical, obtuse somewhat scattered or in groups

Dead trunks Au - Mar 63 in Crack ng when div

1773 G papillosa Fr (from the minute tent like granules papilla, a teat) a c

Membranous, somewhat round, separating, white, becoming slightly signal-vory, marg furfuraceous Gr minute, crowded, equal, roundish

Sticks, pine, jumper bird theiry 3 in Cracking when dry

1774 G erustosa Fr (from its crust like appearance) a b c

Adnate irregularly effused, floccoso mealy, white to ivory, becoming pale brownish-yellow, marg indeterminate *Gr* crowded, obtuse, roundish, minute, regularly distributed, but with barren lacune

Branches, willow, pine, 1603 64 in Not cracking when div

LXXVII ODONTIA Pers

(From the minute teeth which invest the hymenium Gr edeus, edentes, a tooth)

Resupinate, effused, and, not waxy as in Grandinia Hymenium spreading from and between interwoven branched fibres, covered with minute teeth or warts which are crested or penicillate at the apex (Fig. 92)

1775 tends towards Hidnum

Species 1775—1777

1775 0 barba-Jovis Fr (from the minute orange fringe at the apex of each tooth, a fanciful comparison with the beard of Jupiter, barba Jovis) a c

Flavy membranous, whitish to yellowish-orange, faintly shaded brownish marg determinate, broadly barren, white $T\epsilon$ papillose, then conical, white with an orange fimbriate crest

Decayed wood, oak, birch 64 in The hymenium usually exhibits barren patches

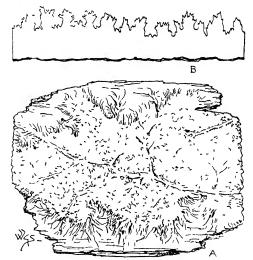


Fig 92 -A Odonti i fm/ri ita l'eis natural ize B, section of ditto enlarged

1776 0 fimbriata Pers (from the fibrillose or fringed margin, fimbriae, a fringe) a b c

Membranous, separating, traversed by prominent root-like branching threads continuous with the fringed marg, pallid or yellowish, suffused vith dull salmon or pale fawn

Dead wood, willow, plane, dog wood, bark, moss Aug-Apill Fitensive barren pitches sometimes occur on the hymenium Fawn-colour whin dry, sometimes becoming deep rich brown

1777 0 cristulata Fr (from the minutely crested teeth) a b c

Crustaceo-adnate, thin, not ribbed, pale warm brown or brownishwhite, marg broadly barren, here and there finely downy

Rotten branches, birch Feb 53 in Cracking all over when dry as in Contenum

1777a To Pruni Lasch (from its host plant, sloe, Prunus spinosa) a 'Crustaceo-adnate, effused, thin, white, becoming pallid, marg byssoid, warts minute, rounded

LXXVIII KNEIFFIA Fr

(After Friederich Gotthard Kneiff, mycologist of Baden)

Resupinate, effused, thin *Hymenium* strigose and roughened with rigid, scattered or fasciculate bristles which are barren outgrowths from the fertile hymenial surface Lavly fleshy, soft, collapsing and becoming floculose when dry *Basidia* monosporous (Fig 93)

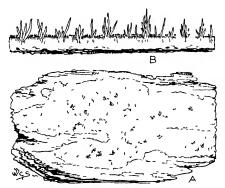


Fig 93 -A, Aneifia setigera Fr natural size B section enlarged

The most perfect condition, where the growth is hemispherical and three inches in diameter, has not been observed in Britain

Must not be confounded with *Pemophora*, where the basidia are 4-spored and the cystidia, which are bristle-like, are covered with minute particles of oxalate of lime

Species 1778, 1779

1778 K setigera Fr (from the minute hairs or bristles borne on the hymenium, seta, a bristle, geno, to carry) a b c

Sub white, becoming ochreous-vory, sometimes pale grey, marg sometimes pulverulent Br minute, single or several connate, more or less scattered, hyaline, the basidia occur between the barren bristles

Dead wood, blackberry, pine, juniper, magnolia, grass Jan - Dec 4½ in Sometimes the spuriously tuberculose hymenium resembles that of 1770 or 1839

1779 K subgelatinosa B & Br (from the subgelatinous substance) a b

Hyaline yellowish, ivory or pale buff, surface very finely granuloso-crested

395

Stumps and cut surfaces of fir 4 in Sometimes accompanied by a green alga which penetrates the tissue of the fungus Cracking when dry as in Corticum.

LXXIX MUCRONELLA Fr

(From the sharp-pointed spines, diminutive of mucro, a sharp point)

Subreulum an extremely thin film, which soon becomes obsolete, spines subulate, simple, acute, glabrous, scattered or fasciculate, and more or less connate at the base Basidia 1-4-sporous (Fig. 94.)

Mucronella was at first placed under Isaria (I calca) by Fries, but its fruit shows it to be a true Basidiomycete, and its fugitive

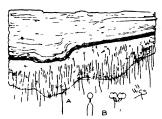


Fig. 4 — 4. 1'n reneles e civa Fr. che half natural size s basidia and spores × 00

subsculum to be one of the *Hydnaca*? Fries seems not to have observed the feeble subsculum, sometimes distinct in *M fasacularis*

1780 M ealva Fr (from the habit, a fanciful comparison with an almost bald head, bearing a few scattered short hairs, calca, the bald scalp) a

Sub obsolete or nearly so St slender, smooth, even, sharppointed, covered except at the barren tips with 1-4-sporous basidia, whitish, then grey The growth of the spines is in a downward direct on, dry examples revive with moisture

Scattered or gregarious Kotten wood, pine Spines vary in size from a minute granule to 1 in long

Large

FAM IV THELEPHORACEÆ

Erect and stipitate, cup-shaped, effused, with the upper portion free and reflexed or resupinate Hymenium inferior or amphigenous, corraccous, waxy or gelatinous, even to rugulose, ribbed or papillose. the surface glabrous, finely pulverulent or minutely velvety, with projecting setæ Basidia clavate, 1-4-spored, normally tetrasporous Spores usually aseptate, 3-septate in the non-British Heterobasidium chlorasans The papillæ are for the most part accidental, generally arising in the resupinate species from Spharia, growing on the bark beneath and not existing when the fungus grows on a surface free from Sphana True papilla, however, sometimes occur on the pileate, terrestrial species Some species are occasionally phosphorescent, as 1861. In the gelatinous species the aseptate and tetrasporous basidia distinguish them from certain members of Tremellinacea, where the basidia are longitudinally and cruciately septate, or if the spores are aseptate the basidia are deeply bifurcate and bisporous Hypomyces rosellus often stains the hymenium of Thelephora, Corticum, and other genera of Thelephoracae a bright purple-rose colour

Massee has published a Money aph of the Thelephoracae in Journ Linn Soc (Bot) xxx (1889) and xxxi (1890). The sequence of the genera adopted here is that of P. A. Saccardo, Syllogi Fungorum, vol vi, which is a slight modification of the order as given in Fries's Hymenomycetes Europæi.

Species 1781—1925

KIN 10 THE GINEKA

Erect, funnel shaped, hymenium glabrous	80	(KATEKELIUS
Erect to resupinate, hymenium rugulose	81	THELETHORA
Effuso reflexed, hymenium even, glabrous	83	STIREUM
Horizontal, attached by a small base behind	82	CIADODIRRIS
Resupinate		
Hymenium smooth setulose	84	HYMENOCH 1 I
Hymenium rough sctulose	86	Peniorhory
Hymenium glabrous	85	CORTICIUM
Hymenium pulverulent	67	CONIOLHORA
Small, cup shaped, usually single	89	CYPHELLA
Minute, cup shaped, crowded	90	SOLI NIA
Parasitic on living leaves and stems	Ś 8	EXORASIDILM

1785

LXXX CRATERELLUS Pers

(From the shape, like a small crater, cup or bowl)

Hymenium waxy-membranous, distinct, but adnate to the hymenophore, inferior, continuous, smooth, even or rugose Pileus

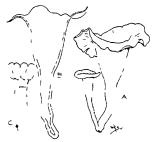


Fig. 95—A B Craterellus cornucipin les Pers entire and il section one thir l'natur d'size et basidium and spores X 500

entire, stipitate, fleshy or membranous Spores white (Fig 95)
Usually large, creet and funnel-shaped Growing on the ground
Autumnal Allied to Canthurillus Species 1781—1785
Tubiform, pervious to the base of the stem
Infundibuliform, stem stuffed 1783, 1784

Irregularly shaped, pileus and stem fleshy

1781 C lutescens Fr (from the yellowish colour, lutescens, yellowish) a

P thin to submembranous, undulate, flocculose, warm vinous, orange brown or dull ochre as P Hym rugoso-veined, ochre-cream, golden-sulphur or salmon, sometimes greyish Flish white-sulphur-ochre

Sometimes cespitose Odour strong as of spirit Moist woods, rare Sept-Oct 24 × 4 × 3 in Sometimes turning black in decay Easily confounded with 1379

1782 C cornucopioides Pers (from the shape, like a cornucopia) a b c P thin to submembranous, undulate, squamulose, umber-sepia St pale grey-slate, often blackish at base Hym even, at length slightly wrinkled, dull purplish-grey

Solitary to expitose Edible Taste and odour agreeable Woods, mixed, fir Aug. Oct 3½ × 5½ × ½ in Never insect eiten Sometimes confounded with 1881, in which there are thick gills This is the Italian "Trombetta di morte" Mrs Hussey records the sale of this species in Covent Garden market

1788 C sinuosus Fr (from the undulate pileus, sinus, a curve) a b c 'P subfleshy, floccose, pale warm umber, pale ochre-umber or fuscous-grey St pallid cinereous or umber, becoming sooty-umber Hym even, at length veined, folds broad, sometimes rather distant, pallid, pale ochre-umber, almost white or dull in hue Flesh colour as St

Odour strong, musky Woods, fir, mixed frequent Aug - Nov $1\frac{\pi}{4} \times 2\frac{\pi}{4} \times \frac{\pi}{4}$ in Small forms are often confounded with 1789

1784 C erispus Fr (from the crisped or curled pileus) a b c

P fleshy-membranous, brownish-ochre, fulginous or fuscous St pallid, pale warm- or yellowish-umber Hym even, pallid, pale ochre-umber almost white or pale dull ochre Flesh pale ochre-umber

Edible odour strong musky Woods, mixed, frequent Aug -Nov 2½ × 2 × ½ in Perhaps a variety of 1783 Small forms are almost identical with 1789 They may, with 1733 be forms of one species

1784a C pusillus Fr (pusillus very small) a .

P convex, umbilicate, thin, rugose villous, cinercous St stuffed, somewhat compressed, grev H₂m smooth or slightly wrinkled, prunose, bluish-grev

Single to crespitose Bare soil under beaches Au, # x x x in

1785 C elavatus Fr (from the club shape when young, claris, a club) a c

P turbinate, truncate or depressed, dull pale yellowish mid pale purplish-salmon St attenuate downwards, coloui as P Hym even, then corrugate dull brown-salmon, becoming lavender-white or brown-purplish Fash pale dull yellowish or pale purple-salmon

Solitary or cospitose, sometimes branched Ldible Woods beech, frout $6\frac{1}{4} \times 3 \times 1\frac{1}{2}$ n Sometimes strongly resembles certain of the larger Lactain

LXXXI THELEPHORA Ehrb.

(From the sometimes papillose hymenium Gr thele, a teat, phero, to bear)

Hymenum inferior or amphigenous, continuous with and similar to the hymenophore, even, rugulose or ribbed, ribs sometimes more or less papillose Without the fibrillose stratum present in Streum Basidio 4-spored Sports wated or echinulate (Fig. 96)

Corraceous, dry, fibrous, destitute of a cuticle, varied in form, pileate, clavate or resupinate. Terrestrial or on stumps, branches, leaves, earth and stones, sometimes investing seedlings and living plants. Some species more or less resemble brown flowers with

laciniate petals, 1794 and 1801 are fetid. The sequence of species is that of Fries, Berkeley, Stevenson and Saccardo.

Species 1786-1804

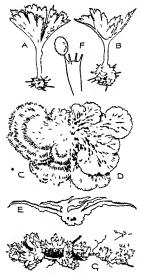


Fig q6—A B Tullpum carsopylla Pers entire and in section one half natural str CDE T la initiate Pers upper and under surface and section one half natural size F basidium and spore X 7.0 C I /Istitutosa F F one half natural size

Erect, pileus entire or branched

1786---1794

Pileate, dimidiate, horizontal, subsessile or effuso-reflexed

1705....1700

Resupinate, for the most part incrusting of various forms, hymenium even Soft, subgelatmous when moist and with a compact, not strigose pileus, forming effused pitches or dendritic masses on twigs, grass, etc 1800—1804

1786 T Sowerbel Berk (after James Sowerby) a b White, becoming yellowish

P infundibuliform, more or less laciniate and toothed, rough with radiating projecting processes St attenuate downwards Hym plain, setulose

On the ground amongst moss, under beech, rare Oct -Nov 2 x 2\frac{3}{4} in Sometimes occurs with a tuberous base as in 1791

- 1786a T vitellina Plowr (from the colour, like yolk of egg, vitellus, egg-vellow) a
- P flabelliform, expanded upwards, marg slightly incurved St attenuate downwards, but enlarged at base Hym rugulose, concless
 - Gregarious Dead fir branches amongst moss, interior of hollow firs Sept 1 × 2 × ½ in Differs from 1788 in its habit and pale egg yellow colour, sometimes pale sulphur with marg brighter and base of stem luminous yellow
- 1787 T pallida Pers (from the pallid colour) a c Pale yellowish-
 - P infundibuliform, strigoso squamose more or less laciniate and toothed St short or obsolete H₁m costate, setulose
 - Crespitose Woods, pine beech Nov $1\frac{1}{4} \times 2\frac{1}{2}$ in Intermediate forms occur between this and 1786
- 1788 T multizonata B & Br (from the many oned pileus multus, many) a b
 - P infundibuliform formed from confluent lobes and stems, marg lobed, crenulate, bright rufous flesh colour, zoned, darker St obsolete Hym slightly ribbed, smooth, paler than P
 - Caspitose Woods, on the ground rare Oct $6\frac{1}{2} \times 5$ in Simple fan shaped forms occur, with the substance split
- 1789 T undulata Fr (from the undulate pileus) a c Pale vellow-brownish
 - P conaceo-membranous depressed even, somewhat smooth, marg entire St central, equal or attenuate downwards, villous Hym ribbed, somewhat setulose
 - On the ground Oct $\frac{1}{2} \times \frac{3}{8}$ in Often confounded with small forms of 1783 and 1784
- 1790 T caryophyllea Pers (from a fancied resemblance to a carnation, *Dianthus Caryophyllus*) a c Deep claret-brown or purple-brown
 - P subcoraceous, depressed, fibrous-torn St equal Hym smooth, somewhat even Flish very dark
 - Odour none On the ground, chiefly about the roots of fir rare Sept Nov 2½ × ¾ × ½ in
- 1791 T tuberosa Fr (from the tuberous base) a Brownish salmonwhite
 - P subcoraceous, divided to top of stem into compressed branches, infundibuliform St obscurely furrowed or lacunose, bulbous Hym smooth Flesh dark brown with a whitish cortex
 - Scattered On the ground, rare 31 x 1 x 1 in
- 1792. T anthocephala Fr (from a fancied resemblance to a flower, Gr anthos, a flower, kephale, the head) a b c
 - P corraceous-soft, pubescent, divided into large and small divisions,

- apices usually fimbriate, yellowish- or claret-brown St short or obsolete, soon furcate, colour as P
- Odour none Woods, on the ground Aug –Nov $2\frac{7}{8} \times 3$ in Somewhat resembles a Chavara or Xylaria hypoxylon in habit Very variable in the form of the lacinize
- 1793 T elavularis Fr (from the nail-like branches, *clavula*, a small nail) a Claret brown or rufous-fuscous
 - P cornaceous-soft, much and irregularly branched, branches round, attenuate, even, smooth, apices acute, pubescent, whitish or pale yellowish St short, thick, somewhat tuberous Odour none On the ground 14 x 3 x 3 in Habit as 1792
- 1794 T palmata Fr (from a fancied resemblance to the palm of the hand) $a\ b\ c$
 - Coriaceous-soft, much branched, pubescent, dark yellowish-brown or dark claret-brown, apices cottony-fringed, brownish-white St branched, flattened even, larger lobes wedge-shaped, the smaller sometimes in form of small infundibuliform pilei
 - Odour fetid, carrion like Woods, fir, maple Aug -Nov 3\frac{3}{4} \times 4\frac{3}{8} in Habit as 1792
- 1795 T intybacea Pers (from a fancied resemblance to the flowers of chicory, Cichorum Intybus) a b c
 - P fibrous, somewhat jagged and toothed, slightly laciniate, zoned or zoneless, rufous-ferruginous, deep sienna or deep claretbrown marg white Hym papillose, subfloccose, veined near marg, brownish-vinous, pale vinous at marg Tufts central and obcome lateral and subtriangular or spathulate
 - Gregarious, imbricate Pine-woods, pine twigs, Vaccinium Myrtillus Nov $2 \times \frac{1}{2} \times \frac{1}{8}$ in Intermediate forms occur between this and 1796 and 1797
- 1796 T terrestris Pers (from the terrestrial habit) a b c
 - P soft, fibrous-strigose, lobed, usually zoneless, extended into a somewhat lateral, almost obsolete stem or base, deep vinous-brown, z when present darker, marg pale brownish-white, often with a narrow white-pubescent edge Hym radiatorugose, claret-brown-yellowish or salmon
 - Gregarious, imbricate Woods, fir July-Oct Diam 13 in
- 1797 T laciniata Pers (from the fringed margin of the pileus, lacinia, a flap) a b c
 - P corraceous-soft, fibrous-sorly, effuso-reflexed, somewhat zoned, deep sienna, som what claret, marg fibrous-fringed, whitish St when present incrusting branches as a thick membrane, paler than P Hym veined and papillose, colour as St
 - Imbricate, growing in strata, perennial Woods, pine, larch, branches, twigs, levies, oak, heather, Iaccinium Upitillus, earth, often on compacted masses of fir leaves Aug -Nov Diam 28 in At first forming a resuprinte, yellowish or salmon brown film
- 1797a T atra Weinm (from the black colour, ater, black) a Soft Pi springing from a tuberous base, purple-black above and below, sometimes cinereous, mid paler Hym smooth, setulose,

- black, white-pruinose St attenuate downwards, deformed sooty-black
 - Cæspitose Dead logs 3 x 21 x 1 in
- 1798 T biennis Fr (from its period of growth, two years, biennis)
 - Corraceous-soft, broadly incrusting, cinerous-fuscous P narrowly reflexed, tomentose, pile claret-brown marg funged Hym in part resupinate, smooth, vers slightly bristly, more or less plicate, the resupinate parts white-edged
 - Subimbricate Stumps, fir, on the ground amongst wood leaves and stones common Aug -Nov Resupinate hymenium 44 in Pilei 1 in
- 1799 T mollissima Pers (from its very soft substance mellis, soft)
 - P subtomentose white to pale or dark claret-brown with a broad white tomentose mang $H_{J}m$ smooth, even claret-brown or pale snuff-colour Flish claret-brown clouded and strenked darker to almost black
 - Submbricate On the ground or on twis leaves etc., oak beech frequent Sept.—Oct. 53 in Very variable, wholly effused ordinate or like a soft stemless imbricate Polyponia sometimes forming a thin funt brown other membrine with a paler margin. Short stems are sometimes developed.
- 1800 T cristata Fr (from the shot, fringe-like crest a b c Pallid or ivory-colour
 - Incrusting, slightly tough, becoming branched, the apiecs crested or fringed *Hym* papillose
 - On the ground in woods or amongs, or on moss dead leaves and grass, frequent. Oct 5 in
- 1801 T fastidiosa Fr (from the disgusting odour fastidiosus, disgusting) a b c White
 - Effused, incrusting, confluent, soft, irregular in shape, shortly branched and toothed H_{JM} papillose white or biscuit
 - On the ground, involving twigs, rootlets, branches leaves, ctc, sloc ivy, beech, beech mast, oak, acorns, moss Scpt -Nov Group 5½ in Odour the strue as 1794
- 1802. T sebacea Pers (from its tallow-like appearance and consistency scha, tallow) a b c White or pale yellowish-white Effused, fleshy-waxy, becoming hard, incrusting, irregular in
 - shape like melting and running tallow, marg determinate *Hym* collapsing, flocculoso-pruinose
 - Involving twigs, grass, moss, leaves, cones clover, ny, Hydnum auriscalpium, etc Jan -Oct 5 in
- 1803. T crustacea Schum (from its forming a crust) a b c Fuscousbrown
 - Broadly effused, somewhat fleshy, undulate and tubercular, marg white-floccose *Hym* papillose, somewhat bristly
 - On the ground, involving grass, leaves, etc., and on rotten sawdust, which it resembles in colour Feb-Nov 3½ in

1804 T eæsia Pers (from its colour, cæsius, bluish-grey) a b c Cinereous bluish-grey

Effused, soft, continuous, often minutely veined or folded, marg determinate *Hym* even or slightly papillose, slightly bristly

On the ground, stumps, etc., involving earth, bark, twigs, etc. Aug. 31/2 in

LXXXII CLADODERRIS Fr

(From the branched and cornaceous structure, Gr klados, a young branch, derrus, a leathern coat)

Coriaceous Hymenum woody, radiate or rugulose with branched ribs, or narrow greatly ramified folds, persistent, at length roughened with warts Horizontal and attached by a small base behind (Fig 97)

Typical species of Cladedaris resemble Lentinus in appearance, with a squarroso-hispid pileus of the colour and texture of leather and a veined hymenium. The species are usually stemless, but sometimes there is a pervious stem as in 1782. The plants are not usually small although small examples occur. Cladedaris diadritical varies from 7 in to ½ in in diam. The prevailing size is from 4 to 6 in in diam. Some species are large, infundibuliform and almost stemless.

The species chiefly grow in Australia, Cuba and the Philippines

1805 C minima B & Br (from its very small size, minimus, the least) a b White

Flabelliform, springing from a stem-like or obsolete base, resupinate P toinentose, somewhat zoned H_1m radiate on branched ribs

Birch Dec Diam 3 in Resembling

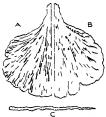




Fig 97—A, B c, upper and lower surface and section of Cladoderris australica Berk drawn as a type of the genus, one half natural size D C minima B & Br, natural size E, ditto, X 2

LXXXIII STEREUM Pers

(From its hard substance, Gr stereos, hard)

Hymenum inferior, coriaceous, separated from the inodermous velvety-silky or fibrous-coated pileus or subiculum by an indeter-

minate fibrillose stratum, even, smooth, composed of basidia and hymenial cells compactly arranged side by side and of uniform height Basidia 4-spored Spores minute, roundish-ovate, white or coloured (Fig 98)

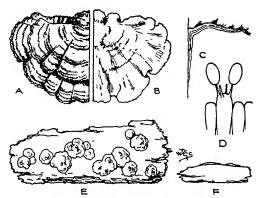


Fig 98—A, B c Stereum hirsuium Pers upper and lower surface and section two thirds natural size p basedum and spores X 660 E, F 5 Inn Fr upper surface and section two-thirds natural size.

Coriaceous or woody, mostly perennial, somewhat zoned, entire, definite in form, effuso-reflexed Species 1806—1818

- a Apodæ Pıleus dimidiate, sessile or at first resupinate, then effusedly reflexed, marginate 1806—1814
- b Resuprnatae Agglutinate, effused marg not free, or scarcely so 1815—1818

a Apoda

- 1806 S hirsutum Pers (from the hairy pileus, hirsutus, hairy) a b c Coriaceous, rigid
 - P hispid-zoned, effused, reflexed, lobed and crisped, usually ivory buff varying dull primrose, orange or brownish, marg subobtuse, white or whitish Hym even, smooth, obscurely zoned, juiceless, usually warm-biscuit
 - Imbricate Stumps, oak, beech, birch, poplar, laburnum Jan -Dic. 4 in Said to cause "fip" wood and "yellow and white piped" wood Pileus often green at the base from the growth of alg. A deep rose coloured stain is frequent on this plant caused by a parasitic mould, Hypomyces rosellus Var subcostatum Vlass Hym costate or rugose Var cristulatum Ould P strigose, grey

- 1807 S ochroleueum Fr (from the yellowish-white pileus, Gr ochros, pale yellow, leukos, white) a c Coriaceous-membranous
 - P reflexed, expanded, flaccid, silky, zoned, hoary-yellowish, shaded pale brownish Hym even, smooth, cracking, yellowish or greyish

Wood, fir, maple, oak, hornbeam Jan 21 in

- 1808 S purpureum Pers (from the purple hymenium, purpureus, purple) a b c Coriaceous-soft
 - P effuso-reflexed, subimbricate, zoned, villoso-tomentose, pale yellowish Hym even, smooth, bright rose- or dark-purple, clouded, salmon Flesh sometimes I in thick, bright rose-purple, 5-7 zoned
- 1809 S sanguinolentum Fr (from the habit of the hymenium, bleeding when bruised, sanguis, blood) a b Coriaceous-thin
 - P effuso-reflexed, substriate, adpressedly silky, pale brownishyellow, marg acute, white *Hym* even, smooth, pruinose when old, brown-whitish or ashy, rarely as P

Wood, branches, twigs, pine, common Jan -Dec 31/2 in

- 1810 S conchatum Fr (from the shell-like shape, concha, a shell) a Corraceous-thin
 - P conchato-reflexed, subcrisped, rugose, glabrous, obscurely zoned, dull yellowish or brown-buff-whitish Hym even, smooth, dry, brown

Subimbricate Fir 11 in

- 1811 S spadiceum Fr (from the date-brown hymenium, spadix, date-brown) a b Coriaceous
 - P effuso-reflexed, hispid-zoned, very hispid at base, pale yellowish or orange-brownish Hym even, smooth, brown-vinous over pale yellow, not dark, or claret-brown, exuding red juice when bruised

Stumps and branches, ash, oak, common Jan -Dec 43 in

- 1812 S rugosum Pers (from the commonly wrinkled hymenium, ruga, a wrinkle) a b c Coriaceous-rigid
 - P effuso-reflexed, shortly reflexed, obtusely marginate, pruinose, then smooth, buff, paler behind, zoned sienna Hym pruinose, yellowish-brown or cream-buff, shaded pale livid, becoming pale vinous where bruised
 - Stumps, fir, hornbeam, oak, hazel, very common Jan -Dec 61 in Var Lauro cerasi Stev grows on cherry laurel, Prunus Lauro cerasus

- 1818. S. vorticosum Fr (from a fancied resemblance in the habit to waves in a vortex or whirlpool) a b Coriaceous
 - P effuso-reflexed, imbricate, obscurely zoned, rugose, strigose, crisped, pale buff, marg white Hym smooth, somewhat ribbed, salmon, or purplish-salmon, sometimes orange shaded

Beech 43 in Intermediate between 1806 and 1808

- 1814 S rufum Fr (from the rufous pileus) a b c Rigid, coriaceocartilaginous
 - P effuso-reflexed, rugose-rough, deep vinous-brown, with pale yellowish marg and white edge Hym minutely cracked, grey-pruinose

Dead pine, ash, poplar Sept-Mar 31 in Effused and immarginate when young

b Resupenata

1815 S Pini Fr (from the habitat, pine bark) a b c

Corraceous-cartilaginous, adnate as a shield, marginate, smooth beneath, at length bullate Hym noduloso-rough, purple flesh-colour, then fuscous, deep sienna or deep vinous-brown

On Scotch fir Nov 31 in Sometimes identical in colour with the pine bark and easily overlooked

1816 S frustulosum Fr (from the habit, breaking to fragments, frustrum, a piece) a c

Woody, tubercular, thick, crowded and subconfluent, breaking to fragments, smooth beneath, and at the obsoletely marginate circumference Hym convey, pruinose, blackish-brown, cinnamon, becoming salmon

Wood and bark, oak, beech, branches, hard to rotten sticks 21 in frustules 1 x 1 in

1816a S quercinum Potter (from the habitat, oak, quercus) a

Corraceous, at first filling in between crevices of bark Him slightly papillose, young examples with a central papilla, pale buff, becoming cinnamon-whitish, marg slightly raised from matrix, dark brown, finely zoned beneath, edge lighter Abundant white mycelium in and under bark

Oak bark Ian - Nov 24 x 12 in

1817 S acerinum Fr (from its usual habitat, maple branches, acer, maple) a b c

Crustaceous, adnate, effused, even, usually smooth, sometimes minutely nodulose or rugoso-rough, often transversely cracked, white, pale brownish-white or ivory

Maple, fir, juniper, elm Dec 41 in A slight repand hirsute pale yellowish margin or pileus is sometimes developed

1818 S stratosum B & Br (from the stratose habit) a

Stratose, the pallid strata at length separating, effused, smooth, here and there wrinkled, bright ochroous-white, becoming yellow

LXXXIV HYMENOCHÆTE Lév

(From the bristly hymenium, Gr humen, a membrane, charte, a bristle)

Pileus coriaceous, variable in form Hymenium plane to papillose, velvety, with minute, rigid, persistent, bright brown setæ or modified



Fig 60 - v P, Ham no hat an ignosa Lev entire and in section one half natural size C part of hymenium howing cystidium basidium and spores X 500

cystidia three or four times the length of the basidia, in **1830** the sette at first very pale Basidia tetrasporous Sporis white or olive (Fig. 99)

Allied to Pentephera

Species 1819-1831

1828-1831

- a Apodæ No stem Spores white, cystidia acuminate, plane 1819, 1820
- b Resupenate With a resupente habit, except 1827

 Spores white, cyst dia acuminate, plane or rough

 Spores olive 1825—1827

 1825—1827

a Aroda

Cystidia subclavate, sometimes rough

- 1819 H rubiginosa Lev (from the iron-rust colour of the hymenium, rubigo, rust) a b c
 - P effused, reflexed, somewhat imbricate, zoned, velvety, deep orange-sienna, marg orange Hjm papillose, ferruginous or umber, sometimes deep claret-brown

Hard wood, twigs, oak, alder, sometimes spreading to moss Jan -Dec 6 in 1820 H Avellana Lev ex Cooke (from the habitat, hazel, Corylus Arellana) a c

P ettused, reflexed, zoned, villous, bay-brown, marg obtuse, free, narrowly reflexed Hym papillose, pale ferruginous or pile brown, here and there bleeding, sometimes minutely cracked all over

Hazel, beach, fir, etc 1-1 in

b Resupinata

- 1821 H nigrescens Mass (from the at length blackish hymenium, mgrico, to be blackish) a b
 - P circular, flattened, marg free, a little reflexed Hym papilloso-rough, brownish-or grevish-umber, becoming blackish, with irregular black zones Flesh indigo umber

Solitary, gregarious or confluent Dry wood May 31 in

1822 H Stevensonil B & Br (after the Rev Dr John Stevenson) a b Hym pallid, fawn-colour, or ivory-salmon with an obtuse slightly elevated paler marg

Yew Sept 2 m This is Stereum rufohispidum Stes

1828 H leonina B & C (from the tawns colour, Gr hwn, a hon) a c Hym somewhat papillose, ferruginous, saffron, orange or orangesienna, sometimes dark, with a few lighter spots marg tomentose, lighter

Dead wood, holly 31 in

1824. H fuliginosa Lev (from the smoke-coloured hymenium, fuhgo, soot) a c

Hym somewhat papillose, dark smoky bay-brown or opaque claret-brown marg lighter

Wood 21 in

- **1825 H corrugata** Lev (from the wrinkles or folds on the hymenium, *corrugo*, to wrinkle) a c
 - Somewhat effused, closely adnate, soon grumous *Hym* papillose, red, red- pale- or vinous-brown, or deep claret sienna, sonietimes darker at marg
 - Bark, alder, maple oak, blackberry, hawthorn, holly, ling lacennum, Myrica Mar-Dec 5½ in lwigs, leaves, etc., are commonly agglutinated to the hymenium Becomes much cracked in drying
- 1826 H eroceoferruginea Mass (from the orange-brown hymenium, crocus, saffron, ferrugo, iron-rust) a
 - Effused, broadly encrusting, very thin Hym pipillose, saffron, yellow-sienna, tawny, pale sienna or yellowish-chocolite marg paler or yellow

Dead dog rose 34 in Hymenium cracking

- 1827 H tabacina Lev (from the tobacco colour) a b c
 - Somewhat corraceous, thin, flaccid, effused, imbricate then smooth, sienna-orange, pale or deep sienna or purplishumber, zoned sienna, base blackish umber, marg reflexed, ivory Hym ferruginous, deep- or crimson-sienna, with a white, ivory, yellow or orange marg
 - Somewhat uncommon Trunks, branches, etc., willow, hazel, plum, oak, birch, lilac, blackberry, cotoneaster, rhododendron, Anti omedia, Vaccinium, sometimes spreading on to moss Oct -Mar 3½ in
- 1828 H crassa Cooke (from the thick substance, crassus, thick) a P velvety, pallid-rufous, marg thick, at length free Hym unequal, colour as P

Trunks 4 1 in

- 1829 H abletina Mass (from the habitat, trunks of fir, ables) a b P effused, tomentose, stenna-brown Hym papillose, fuscousferruginous, dull yellowish-purple, brownish-salmon or claretbrown, clouded ivory-ochre or purple-lilac, becoming pale
 - Decaying fir, spruce-fir 21 in Cracking when dry
- 1830 H disciformis W G Sm, Thelephora disciformis DC (from its frequent disc shape) a White to ivory-white
 - P disciform, thinner towards the definite free naked marg Hym unequal
 - Trunks, oak 1½ in This is Stereum disciforme Fr Cooke has placed it in Peniophora, and has illustrated the plant with granular seta. Saccardo follows Cooke My plants and those in British Museum have smooth
- 1831 H Boltonii Cooke (after James Bolton of Halifax) a
 - P villous, white to ochre or pale lavender, zoned brown or black Hym white to pale brown, becoming ferruginous-fuscous or dark red, marg crisped, free, thin

Bird cherry Feb 14 in Cracking when dry

LXXXV CORTICIUM Pers

(From the usual habitat, bark, cortex)

Resuppate Hymnum often broadly effused, in a few species the margin is slightly upraised, amphigenous, even or tuberculose,

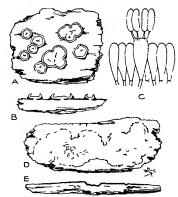


Fig 100—A, B Corticium salicium Fr entire and in section one half natural size C by menium with basidia and spores X 500 D F C calceum Fr entire and in section one half natural size

waxy or fleshy-soft, usually contracting and cracking when dry, smooth, arising immediately from the mycelium without an intermediate

fibrillose stratum, without setae or modified cystidia Spores white (Fig. 100)

Usually growing on bark and wood, sometimes on sawdust, earth, fit-cones, stems of herbaccous plants, leaves, moss, etc. Some species are phosphor-scent. Young examples of some species of Contacum may readily be confounded with Picica. The hymenium of some species occasionally exhibits pale rose-coloured to deep crimson stains caused by the presence of a parasitic mould, Hypomyces rosellus.

Marginate, margin free determinate

1832—1837

Margin usually indefinite, byssoid, strigose, pulverulent or mucedimous-clouded

Hymenium white, or othreous

1837a-1851 1852-1864

Hymenum brightly coloured

Amphigenous, very thin, innute, throwing off the bark 1865, 1866

1832 C salicinum Fr (from the habitat willow salia) a c Coraccous, soft, rigid when day, small fixed by centre. Him somewhat rigidose, becoming finely but spatingly cracked, deep claret-crimson, margireflexed all round villous, white or pale rose.

Gregarious Willow rarely poplar Au₅ -Sept †-1 in Acsembles 2

1833 C amorphum Fr (from the supposed ambiguous structure of the hymenium (a a, without, morphe, form) a b c

Somewhat corraccous, small, waxy-plant, cup-shaped then flattened *Hym* white- grey or yellowish-umber marg white

Gregarious Silver fir, larch Aug - Nov 1-8 in Resembles a Pre 2a This is Peara amorpha Pers , The Information of Miller In It grows in company with Peara calierna, with pallid examples of which it may be easily confounded. When dry the Cortanium and Peara resemble each other closely

1834 C evolvens Ir (from the habit, as of new plants emerging from the margins of older ones crotten, to unroll) a b c

Soft, cup shaped to utfuso reflexed, gregarious, becoming confluent *Hym* somewhat rugose or tubercular, cracking, pale stenna, clouded darker or pale yellowish-brown

Bark, cherry, willow, poplar, frequent Oct - \pril 1-14 in

1835 C porosum B & C (from the pore-like markings on parts of the hymenium) a

White, becoming pale othre, marg free, reflexed

Wood 4-3 in The "pores somewhat resemble the true pores of Prothelium, they are of different sizes and appear as thin dried circular lines, such as are left by minute drops of mosture in drying

- 1836 C populinum Fr (from the habitat, popular, populus)
 - Soft, tuberculiform, soon confluent and effused, at length involute *Hym* uneven, ferruginous-cinerous, whitish-tomentose beneath Poplar
- 1837 C Lyen Cooke ex Mass (from the usual habitat, Lycum) a Ettused, thin Hym papillose, lilac or white-salmon, marg free, somewhat byssord, pallid Lycum, lilac 4-3 in
- 1837a C seriale Fr (from the habit, growing in long, gregarious rows, serias, a row)
 - Elongato effused, adfixed to matrix, thin *Hj m* rimose, thin, papil lose, dull ochrous, white pruinose marg fibrillose whitish Wood, pine
- 1838 C caleeum Fr (from the chalk-white colour, calx, lime) a b c Broadly effused, agglutnate, wave Hjm even, smooth, rigid, cracking, white or pallid, becoming pale dull salmon, marg finely pulverulent, white
 - Wood, pine, blackberry little willow, lime, hornbeam, birch, Myrica, leaves, earth May-Aug 4-5 in This is C cretaceum Pers
- 1839 C serum Fr (from its time of growth—winter, serus, late, growing in winter) a b c
 - Broadly effused, incrusting fleshy to thin Hym smooth to prunose, crowded with papilla, splitting into flocei, white, mang fading in a mucedinous manner into the wooden matrix, sometimes forming finely pulverulent cloud-like growths
 - Trunks, birch ilder hornbeam 1-31 in This is Histochnus Sace, Licomicas Karst. Often resembling spluttered drops, as from a wax candle
- **1840 C** soutellare B \times C (from the solver like form it sometimes assumes *rotalia*, a salver) a c
 - Broadly effused *Hym* cracking into minute areolæ, with intermediate finely-folded rugose patches, whitish, becoming warm biscunt-buff mang forming thin cloud like growths in mature examples
 - Kotting logs, firze, oak, cedar, dead herbaceous stems 6 in
- 1841 C foetidum B & Br (from its fetid odour) a

 Effused Hym cracking, white to ivery and ochreous, clouded pale grey and faint sienna

Sawdust 1-21 in

1842 C lacteum Fr (from the milk-white colour, lac, milk) a b c Broadly effused, submembranous Hjm waxy, cracking and parting when dry, white to pale biscuit with mid darker, sometimes pale straw or pale orange-colour, sub and marg loosely fibrillose, often fringed with long branching strands of white mycelium, sometimes with pilose or farmose cloud-like growths links and beneath bark, chestnut, beech, holly, lime, frequent Novices.

1843 C læve Pers (from the even hymenium lævis, even) a b c

Effused, membranous, separating from matrix *Hym* even, smooth, rarely papillose, commonly with vacuoles exposing the wood, cracking, white to sienna-yellowish, flesh-colour, livid, salmon or pale red, marg sometimes broad, cdge pilose, rivory to white, sometimes with radiating strands of white mycelium

Wood, bark, sticks, pinc, poplar, birch, alder, oak, very common Nov-Nay 84 in Some conditions resemble 1770

1844 C confluens Fr (from the habit—forming confluent patches)

Agglutinate, submembranous Him even, naked, cracking, somewhat concentrically rigose when voung hyaline becoming white, lavender-brown-white, yellowish-blown, pale brownish or pale rose-purple marg spreading in a dentate minner

Bark, beech, alder, ash, willow Mar - Aug 5-3, in

1845 C nudum Fr (from the hymenium becoming bare nudus)

Waxy, agglutinate, very thin, becoming rigid Hym flesh-colour, white-salmon, umber-norv or vellowish-bufl, clind with fugacious white meal cracking when dry many determinate, smooth

Dead wood, bramble, alder, yew, willow Aug - April 4-44 in

1846 C arachnoideum Berk (from the mycelium—like spider-web, Gr arachno, a spider) a b ε

Very thin, effused, delicately flaxy somewhat papillose, somewhat cracked when dry, white or faintly clouded sulphur, yellowish or brownish, floccose beneath, marg white fibrillose

Wood, bark, oak, pine, twigs, leaves, grass, lichens, etc Oct -Mar 7½ in

1847 C radiosum Fr (from the radiate habit) a b c

Membranous, subrotund with radiate lobes *Hym* smooth, glabrous, irregularly papillose, cracking when dry, primrose-white to dark ochreous or buff, adpressedly fibrillose beneath, marg fibrilloso-radiate, often with long strands of mycelium

Elm, birch, pine, hornbeam, naked wood Oct -Feb 42 in

1848 C Typhæ Fuck (from the usual habitat, bulrushes, T)pha, a bulrush) a b c

Longitudinally effused, thin, at first forming white byssoid spots, smooth then mealy, cracking when dry, ivory to tan, marg usually ragged or ill-defined

Dry leaves of Typha latifolia and species of Carex 11 in

1849 C Sambuei Pers (from the habitat, elder, Sambucus) a b c

Broadly effused, indeterminate, encrusting, somewhat innate, cracking and breaking into floccules when diy, white

Very common Aug -May 7 in Sometimes forming hyaline-whitish spotty cloud-like growths

- 1850 C lacteseens Berk (from its habit of exuding a watery milk-like fluid, lac, milk) a b c
 - Wavy-soft, agglutinate, undulate or rugose at length cracked, pale flesh-colour or pale salmon, marg shortly byssoid
 - Dead wood, ash, willow Oct -Feb 6 in Interstices of cracks silky Superficially resembles 1898
- 1850a C strigosum Pers, var filamentosum W G Sm, Thelephor a byssodes DC (from the thread like habit, filum, a thread)
 Sub, vab, blibe, filmynotous, ettang blie, dell, religious, blibe, filmynotous, ettang blie, dell, religious, blieder, and the contraction of the contraction of the contraction of the contraction.

Sub web-like, filamentous, string-like, dull yellowish, externally pulverulent

On Amaryllis

1850b C violeum W G Sm, Hypochnus violeus Quel (from the colour)

By ssoid, thin, orbicular Hym velvety-floccose varying lilac and rose, marg thin pallid

Dead branches, pear, apple

1851 C lacunosum B & Br (from the hymenium, full of openings, lacuno, to hollow out) a

Broadly effused, soft, pulverulent, lacunose, exposing matrix beneath, takny, ochreous or cinnamon, clouded pale umber M_{JC} woolly, takny

Wood, branches 5 in

1852 C roseolum Mass (from the rose-coloured hymenum) a b Broadly effused, indeterminate, very thin, wavy Hym smooth, continuous, not cracking, pale rose or salmon, marg whitish, silky

Worked wood, palings Nov 7 in

1853 C aurora B \times Br (from the rosy colour, like the dawn, aurora) a b

Effused, thin, agglutinate, rosy, becoming pale salmon with a lighter indeterminate marg

Dead leaves and stems of Cares, C paniculata Feb 21 in

1854 C anthochroum Fr (from the rosy flower-like cloudings, Gr anthos, a flower, chros, colour) a b c

Broadly effused, membranous, floccoso-velvety, clouded brick-red or rose on a pale brownish ground

Investing dry bark, twigs, etc., sycamore, birch, spreading to earth, rare Nov-Mar. $6\frac{1}{4}$ in Sometimes forming small, dark vinous patches

- 1855 C molle Fr (from its soft substance, mollis, soft) a c Irregularly rounded, floccoso-fleshy, loosely interwoven Hym wavy, papillose, cracked when dry, pallid, pale sienna to reddish-buff, marg naked, paler, sometimes byssoid Fir 3½ in
- 1856 C polygonium Pers (from the hymenium, often covered with small polygons, from the confluence of small growths) a b c Adnate, determinate, soon hardened, somewhat grumous Hym

prunate, at length more or less cracked, lavender-white or flesh-colour, red beneath

Dead brunches, hornbeam poplar sloe, hlac, clm Robinia frequent Mar - April \$\frac{1}{2}

1857 C maculæforme Fi (from the rose-coloured spots on the hymenium macula 2 spot, forma form) a

Orbicular, confluent, indurate, thin Him spuriously papillose, purple with 10se-coloured spots and smaller purple spots, marg determinate, pale purple

Dead wood 21 in

1858 C sanguineum Fr (from its blood red colour sanguis, blood) a b c

Broadly effused, indeterminate even, smooth loosely adherent, arachnoid beneath slightly cracking when dry bright deep cinnabar crimson clouded purple and black crimson mang sometimes broadly floccose with cinnabar white invection, sometimes forming cinnabar white cloud-like growths

Wood, squared wood pine larch sprending to leaves Oct -1 cb 10½ in Deeply staining wood a permanent blood red colour Raiely feitile

1859 C Carlylei Mass (after Dr. David Carlyle of (arlyle) a

Effused in elongate patches agglutinate, between wavy and soft

Him even, smooth dull orange marg white

Oak bark. 32 × 2 m

Oak bark 3# X # in

1860 C FLAVFOLLM Mass (from the vellowish hymenium flatus, light yellow) a

Effused, membranous, loosely adhering Him pullid vellowish, or very pale lemon with a determinate white marg

Trunks of tree ferns 3 in

1861 C corruleum Fr (from its frequent a/ure-blue coioui caruleum, azure-blue) a b c

Broadly effused, adnate Hym waxy-soft, pupillose tomentose, slightly cracking, deep smalt or Prussian-blue, sometimes almost black or clouded deeper and lighter neure-blue marg determinate, bordered with a fine white line or narrowly flaviand pale blue, sometimes upturned

Sticks, dressed wood, dead wood, gates, rails, fit, chestnut common Dec-April 6 in Sometimes phosphorescent Sometimes black when dry

1862. C violaceolividum Fr (from its violet and livid clouding) a c Somewhat effused, adnate, indurate Hym spuriously corrugate, tuberculose, mealy, cracking all over when dry, livid purple, clouded darker or indigo-white, clouded pale brown, marg paler or yellowish

Dead wood, willow, lilac 43 in

1863 C lividum Pers (from the livid colour) a b c

Effused, closely adnate, between wavy and soft Hym even, sometimes rugose or tubercular, somewhat viscid when moist, cracking when dry, variable in colour, clouded pale buff, pale liver or livid azure-blue and fuscous-purplish marg pulverulent, granular or determinate, paler or white

Dead birch, elm, rare Oct -June 5 in

1864 C atrovirens Fr (from the colour, blackish, shaded greenish, ater, black, vireo, to be green) a

Irregularly effused, tomentose beneath *Hym* waxy, smooth, prumose, somewhat pale dull indigo with a greenish shade, marg tomentose

Rotten wood, leaves, sticks, rare 3 in

1865 C nigrescens Fr (from its blackish colour, nigrico, to be blackish) a c

Effused, interrupted, waxy, agglutinate Hjm here and there papillose, cracking when dry, yellowish then blackish or brown-whitish to brown slate, densely powdered with large spores

Branches, sticks, under the bark, oak 3 in

1866 C comedens Fr (from its habit of destroying the bark, when very thin, under which it grows, comido to consume) a b c

Effused, innate, exposed only when the bark splits Hym even, sometimes papillose or finely granular, slightly viscid when moist, cracking when dry and peeling from matrix, flesh-colour, lilac or variegated pale dull buff and pale to somewhat dark purplish

Sticks, branches, hazel, alder, hawthorn, chestnut, pine, oak, hornbeam, very common Aug-Mar 5½ in Never found above the bark

LXXXVI PENIOPHORA Cooke

(From the shuttle-like sette, metuloides, or modified cystidia borne on the hymenium, Gr penion, a shuttle, there, to bear)

Resupinate, effused, conaceous or subcarnose *Hymenium*, as seen under a pocket lens, setulose, cystidia projecting, fusiform, colourless, hyaline at first smooth then verruculose above with minute particles of oxalate of lime, which are derived from water containing this substance in solution. The cystidia give the hymenium a velvety appearance, but they sometimes break away and leave the hymenium smooth, in this condition care must be taken not to confuse the species with *Corticum Basidia* tetrasporous *Spores* white, hyaline (Fig. 101)

Growing on wood, bark, leaves, etc. Young examples of some species may be readily confused with Pezizæ Species 1867—1882
Margin free, more or less incurved 1867—1870
Margin adpressed, often indeterminate 1871—1881
Setæ aggregate in fascicles 1882

416

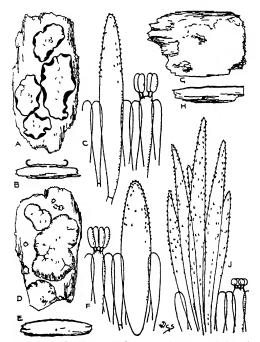


Fig. 101 — A, B, Pentophora guercina Cooke, entire and in section one half natural size c basidium spores and cystidium of ditto \times 500 b E I rotes Mass, entire and in section, one half natural size c, basidium spores and cystidium of ditto \times 500 G, H I hydroides Cooke δ . Mass, entire and in section one half natural size I basidium, spores and cystidium of ditto X 500

1867 P quereina Cooke (from the usual habitat, oak, quereus) a b c Cartilaginous, membranous, at first agglutinate, then fixed at centre, rigid, smooth, slightly cracking when dry, turning black beneath Hym papillose, or irregularly rugose, sometimes rugged all over, flesh-colour, pale purplish-rose, pale yellow-buff, dull salmon or liver-whitish

Oak, birch, lilac, lime, hazel, ash, chestnut Aug -April 7 in

1868 P pezizoides Mass (from its resemblance to Peziza, Gr eidos, resemblance) a

Somewhat leathers, cup-shaped, then flattened, fixed at centre, externally pallid villous Hym continuous, ochreous or somewhat pale umber, mid darker, marg white

Branches, horse chestnut 1-3 in

1869 P gigantea Mass (from its large size, giganteus) a b c

Broadly effused, swelling when moist, fleshy-tough, waxy, cartilaginous when dry, slightly cracking, marg free, incurved H₁m even, continuous, partly granular, white to ivory, shaded grevish, marg rugose, grev-ivory beneath

Stumps, trunks, branches, fir, larch, sometimes investing fir leaves, moss and grass, common Oct -April 81 in

1870 P Crosslandii Mass (after Charles Crossland of Halifax)

Effused, thin, soft when moist, wholly separating from matrix when dry H_1m pale grey, faintly ochreous when dry

Wood and bark, fig. Differing from 1869 in the smaller spores and shorter cystidia

1871 P limitata Cooke (from the margin limited by a black line) a Somewhat orbicular, grumous, indurated, smooth Hym lurid, lavender-brown, shaded brown Wood and bark, broom 32 in

1872 P rosea Mass (from the rose-coloured hymenium) a b c

Effused, very thin, slightly cracking, showing grain of wood beneath Hym minutely papillose in middle, rose or rosesalmon becoming pale, sometimes clouded pale brown, marg often finely fimbriate or rugoso-radiate and paler, sometimes tinted pale sulphur

Wood bark, birch, poplar, willow, walnut, rose, often spreading over grass, lichens, etc Oct -Mar 43 in Becoming rufous salmon when dry Illosforium roseum is probably a young condition of this or of 1873

1873 P mearnata Mass (from the flesh coloured hymenium, incarnatus, flesh-coloured) a b c

Somewhat waxy, agglutinate, thin, cracking when dry Hym dull pale red, pale vermilion, red-orange, salmon- or vermilionwhite, or salmon, when young sometimes white, marg radiate, varying darker or paler

Wood, bark, bramble, gorse, birch, beech, laburnum, alder, plane, fir Dec -April 51 in Illosporium carneum is probably a young state of this or of 1872

1874 P ochracea Mass (from the ochreous-yellow hymenium) a c Broadly effused, cracking when dry Hym pallid ochreous, at first sprinkled with scattered shining gold-like atoms, sometimes pale vinous

Wood, bark, ash 53 in This must not be confounded with 1895

1875 P cinerea Cooke (from the ash-coloured hymenium, cans, ashes) a b c

Waxy, becoming rigid, confluent, cracking when dry *Hym* minutely papillose or granular, cinereous or lurid, umber-white or white-lavender, often clouded umber, here and there pale salmon-white, marg usually definite

Wood, bark, herbaceous stems, pine, oak, poplar, lime, ash, honeysuckle, ivy, bramble, Lycium, Viburnum Aug -June 6 in

1876 P volutina Cooke (from the velvety hymenium rellus, fleece) a c

Broadly effused, adnate, very delicate, cracking when dry *Hym* even, flesh-colour, rose-salmon, ivory, scarlet-white, sometimes rose-lavender, paler at the somewhat broad, fleecy, usually fimbriate marg, extending in radiate strands of mycellum Wood, bark, pine, bracken, sometimes involving moss. Oct-May 6 in

1877 P rimosa Cooke (from the cracked hymenium rima, a cleft) a

Broadly effused, agglutinate, cracking into arcola with silky interstices *Hym* cinereous, pallid fawn, or somewhat pale brown-sienna-ochre

Bark, wood 4 in Differing from 1876 principally in the larger spores

1878 P seotica Mass (from the first place of finding, Scotland) a Broadly effused Hym cunnamon or pale brownish-ochre, obscurely vinous and clouded opaque cunnamon-brown marg fibrillosely-radiate.

Inside bark 3½ in The irregularities of the inner side of the bark show through the substance

1879 P phyllophila Mass (from its habitat, leaves Gr phullon, a leaf, philos, loving) a

Broadly effused, membranous Him continuous, ivory, sometimes faintly sulphurous or ochreous marg fibrillose or indeterminate

Dead leaves 48 in Must not be confounded with the non British Corticium epiphyllum, from which it is distinguished by its set e

1880 P pubera Sacc (from the down's hymcnium, puber, downy) a c Broadly effused, closely adnate, very delicate, cracking Hym even, white, clay-colour or colour of milky coffice, marg determinate to indeterminate but minutely ragged, sometimes slightly pulverulent

Oak, beech, mountain ash, rough pieces of rotten wood [an -Feb 3½ in 1881. P terrestris Mass (from its occasional place of growth, the

ground, terra) a b

Effused, very thin Hym cinereous, pallid fawn or lavender-slate-

white

Earth, twigs, branches, leaves 5 in Resembles pale dull lavender clouds

- 1881a P Chrysanthemi W G Sm, Corticuum Chrysanthemi Plowr (from the habitat, base of living chrysanthemium stems) a . Effused, incrusting, indeterminate, uneven from the irregularities of the matrix Sub filamentous Hym indeterminate, white Autumn 5 in
- 1882 P hydnoides Cooke & Mass (from the resemblance of the hymenium to certain resupinate species of *Hydnum*, endos, appearance) a

Broadly effused, thin, somewhat innate *Hym* cinereous or dull lavender-white, clouded

Bark Nov 51 in Somewhat resembles Grandinia

LXXXVII CONIOPHORA DC

(From the dust or spore-powdered hymenium, Gr konts, dust, phoreo, to carry)

Resupinate, broadly effused, margin defined or indeterminate, closely attached to the matrix. Hymenium even, powdered with

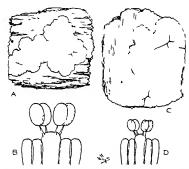


Fig 102 — A Comophora olivacea Karst one half natural size B basidium and spores of ditto \times 00 °C, C ochracea Mass, one half natural size b basidium and spores of ditto \times 500

spores, without setæ Basidia tetrasporous Spores smooth, pale brownish or pale dull ochreous (Fig 102)

Growing in broadly expanded patches on dead wood or bark

 Spores large
 1883—1898

 Spores small
 1894—1896

Substance soft, subgelatinous 1897, 1898

1883 C olivacea Karst (from the olivaceous colour) a b c Membranous, broadly effused, orbicular or elongate Hym dull olive, sparkling with oxalate of lime crystals when fresh, marg fimbriate, whitish Spores pale dull ochre

Trunks and wood, pine, uncommon Oct -Nov 52 in

1884. C pulverulenta Sacc (from the pulverulent hymenium) a Effused, dry, cracking H_{1m} brown, ferruginous- or yellowishbrown, clouded and mottled darker marg membranous, white or pale vellowish-brown Spores pale dull vellow

Wood 7 in Has been considered a form of 1680, var pulsivulentus

1885 C puteana Karst (from its often growing in cellars, humid greenhouses, etc , putcanum, a well) a c

Broadly effused, fleshy, fragile, somewhat thick, compact, almost way, usually with open spaces exposing the matrix, sometimes cracked and showing the fibrillose substratum Him subundulate, pallid, yellowish or buff to ohvaceous-brown or brown-sienna, marg mucedinous, white, sometimes indefinite Spores tawny olive

Bark and wood, cypress, dead wood, rotten trunks running over dead leaves, damp walls in cellars, greenhouses etc frequent Oct -Nov 54 in

1886 C cinnamomea Mass (from the cunnamon colour) a b c

Effused, confluent, irregular, fleshy, soft somewhat thick, cracking and exhibiting the fibrilloso-strigose Sub $H_{1}m$ pale cinnamon to dark rich sienin-umber or chocolate, spotted or mottled darker Spores pale dull sellow or very pale cinnamon

Wood, bark, plum, hazel, hornbeam, birch, oak rare Nov 4 in

1887 C umbrina Karst (from the brown colour, umber) a b c

Effused, confluent, fleshy-soft, somewhat thick Sub villous Hym tuberculose then collapsing, varying pale to dark brown or sooty- or yellowish-umber often slightly olive marg shortly fimbriate Spores pale, dull brown

Dead wood, branches, sticks, etc. Sometimes on the ground. Feb. 6 in Not easily separating from the matrix. Surface sometimes rugoso papillose all over

1888 C incrustans Mass (from the incrusting habit) a b

Effused, thin, indeterminate, almost way when perfectly developed Hym waxy-pulverulent, pallid to pale yellowish Spores pale vellow

Enveloping leaves, twigs, etc., with a film 6 in Thinner and less nodulose than 1898

1889 C arida Karst (from its dry substance aridus, dry) a b c

Effused, membranous, adnato-agglutinate, continuous, cracking Hym even to slightly tuberculose, sulphur-vellow, becoming ferruginous-umber, clouded, marg broadly radiato-by-soid, sometimes pulverulent, sulphur-white, sometimes zoned ochre and sulphur near marg Sports pale dull yellow

Logs, woods, cellars, pinc, fir, juniper, common Oct -Feb 7 in

1890 C sulphurea Mass (from the sulphur colour) a b c

Effused, fibrilloso-flaxy, somewhat thick, when perfect thick and waxy-soft, cracking, often imperfect and spongy, passing into

radiate, cord-like, branching sulphur-coloured strands *Hym* minutely papilloso-rugose or granulose, bright sulphur-yellow, or clouded and mottled sulphur and orange on an ivory ground, fading to yellow-umber, sometimes rich sienna-orange with a pale somewhat byssoid sulphur marg *Spores* olive

Dead wood, bark, twigs, leaves, stipules, etc., pine, oak, beech, sometimes on earth Oct-Jan 5½ in Var ochroidea Mass Hym ochreous with a cream or sulphur margin Spores larger than type, probably specifically distinct

1891 C subdealbata Mass (from the whitish colour, sub, somewhat, dealbatus, whitened) a b

Broadly effused, thin, determinate, cracking white, thickly powdered, pallid fawn, or pale ochreous-whitish, mottled brownish-ochre or shaded olive, often with paler barren patches **Spores** ochreous or pale dull yellow

bark pine Dec 43 in

1892 C stabularis Karst (from its being first recorded from an ox-stall, stabulum, a stall) a c

Effused, flavy when young, fleshy-soft Hym tubercular, tubercles collapsing, white, whitish-yellow, pale yellowish-brown or vinous fuscous, white-prumose, marg definite flavy or pulverulent, white

Odour fetid from its habitat Squared wood, fir 41 in

1893 C Berkeleyi Mass (after the Rev M J Berkeley) a b c

Effused thick, cracked, marg determinate, sometimes minutely byssoid *Him* vinous-brown, somewhat yellowish, somewhat paler at the pullid marg *Spores* trwny

Bark, decorticated wood 4 in Superficially resembles 1850

1894 C Cookei Mass (after Dr M C Cooke) a

Effused, fibrilloso-membranous *Hym* ferruginous-olive or yellow-ish-brown, clouded darker, marg byssoid, pallid *Spores* pale dull yellow

Rotting wood 41 in

1895 C ochracea Mass (from the ochreous colour) a b

Broadly effused, submembranous, indeterminate, cracking $H_J m$ with a woolly appearance, subpapillose, sulphur-white to ochre, salmon-white when dry, or pale vinous-brown with a yellowish tinge, marg broad, pulverulent, pale yellowish Sports yellowish or pale dull yellow

Wood, bark, elm July 5 in Resembles a thin form of 1890 Must not be confounded with 1874 or the var ochroidea of 1890

1896 C membranacea DC (from the somewhat membranous substance) a

Somewhat orbicular or effused, fragile, cracking and peeling off the host Hym dull ferruginous or opaque-yellowish, siennaumber, mid somewhat dark, constantly paler at the fibrillose marg Spores ochre

Forming patches a foot or more in diam on walls, wood, paper, etc 92 in

1897 C. gelatinosa W G Sm, *Aldridgea gelatinosa* Mass (from its gelatinous substance) a

Broadly effused, fleshy, subgelatinous, sometimes $\frac{1}{8}$ in thick, becoming collapsed and rigid $H_J m$ pallid becoming purplebrown, marg determinate Spores olive

Sawdust, extending for several unches, the irregularities of the hymenium due to the substratum -5 in

1898 C byssoidea Karst (from its, at first, flaxy condition, Gr byssos, fine flax, cidos, appearance) a c

Irregularly effused, at first grey, then compact, mid fleshy Hym light to ferruginous yellow, or colour of coffee and milk, marg narrow, somewhat arachnoid or flaxy, whitish

Forming a biscuit coloured film sometimes a foot broad on fir leaves, moss, earth, etc., frequent $4\frac{1}{2}$ in

LXXXVIII EXOBASIDIUM Woron

(From the habit, the spores growing from basidia only with no true sporophore, ex, out of)

Entophytes parasitic on living leaves and stems, which they deform and hypertrophy

Basidia crowded, cylindrico-clavate,

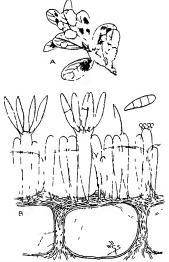


Fig. 103 —A, Exobasidium Vaccinii Woron one hilf natural size B, section through hymenium of ditto, showing basidia and spores, X 500

normally tetrasporous, but spores sometimes varying in number from one to five The hymenial cells are borne on vegetative hyphæ which grow in the cellular tissue of the host and form a loose stratum on its external surface Spores ovate to elongate-oval, continuous. rarely becoming septate, colourless (Fig 103)

Most nearly allied to Corticum, but differing in the absence of a sporophore or subiculum and in being parasitic Exoascus, an Ascomycetous fungus, sometimes grows in company with Exobasidium

Species 1899, 1900

1899 E Vaccinii Woron (from its growth on Vaccinium and its alhes) a b c

Innate, effused, usually orbicular or elongate, often confluent Hym on under surface of leaves and round stems, pale rose, covered with a white bloom

June-Aug 1 in Ked or purple patches occur on the upper surface of the leaves, opposite to the portion occupied by the fungus below

1900 E Rhododendri Cramer (from its growth on Rhododendron) a c Forming gall like bullate excrescences, at first pale, then reddish and shining on stems, petioles and under surface of leaves

On Rhododendron ferrugineum, R hirsutum, K Wilsonii July Insects, mites, etc are often found in the gall like swellings of Exobası lıum

LXXXIX CYPHELLA Fr

(From the usual shape, like a small goblet, Gr kuphos)

Usually small, sometimes almost minute, somewhat membranous, cup-shaped, rarely plane, adnate 'rom a central or oblique point,

sometimes with a stem and pendulous Hymenium within the cup or disc Basidia tetrasporous, rarely bisporous Spores subovate (Fig 104)

Closely allied to Solema C perpusilla is intermediate. Owing to the strong external resemblance in many Cyphella to certain small species of Pesiza, a genus of Ascomycetous fungi, it is necessary to examine microscopically the hymenium of some of the species for the decisive characters of basidia or asci C faginea Lib is British, but it is an Ascomycete

> Species 1901—1922 1901---1905

Stipitate Sessile or subsessile Spores hyaline Sports coloured

1906-1918 Phil

104 -A, Cyphella br ditto with 1919—1922 tion x to p basidium and spores,



- 1901. C Pimii Phill (after Greenwood Pim, mycologist) a b
 - , Fasciculate, cyathiform, erect or pendent, membranous, soft, fragile, pubescent, white or pale yellow Stem somewhat slender, crooked, enlarged upwards, marg somewhat incised

Dead herbaceous stems in water, nettle, butter-bur Feb 1 x 1 in

1902. C capula Fr (from its resemblance to a small bowl, capula) a b c Membranous, obliquely campanulate, smooth, marg sinuate, irregular Hym even, whitish to yellowish, rarely greyish, brownish, or wholly white

Dead herbaceous stems, twigs branches, nettles, fennel, moss, strawberry, comfrey, frequent Oct -Aug 1 in

1903 C cernua Mass (from the habit, bending downwards. cernuus, nodding) a

Thin, obliquely campanulate, glabrous, stem elongate, equal, clear primrose yellow, yellowish-white, somewhat sulphur or very pale yellow

Bark, elder 1 in Perhaps the same as 1902, but Massee considers it distinct in its more erect habit and larger spores

1904. C euticulosa Fr ex Berk (from the membranous substance. cuticula, the outer skin) a b

Membranous, at first oblong, then cup-shaped, smooth externally, diaphanous white

Dead grass stems, rare Feb 3-1 in

1905 C lacera Fr (from the cleft margin, lacerus, torn) a b c Membranous, cup-shaped, vertical or pendulous, torn into clefts, slightly striate and black fibrillose above $H_{1}m$ slightly wrinkled and whitish, grey externally Dead twigs 1 x 1 in

1906 C galeata Fr (from its resemblance to a metal skull-cap or helmet, galea, a helmet) a c

Membranous soft, subsessile, even marg entire, then torn Hym slightly wrinkled, white to grey-white or pale rose-brown Mosses, uncommon Dec 1 . in

1907 C Goldbachii Weinm (after Carl Ludwig Goldbach) a b c Membranous, cup-shaped, sessile, lobed or cleft, externally villous Hym even, pallid, white, ivory, or white-ochre Dead leaves of Aira caspitosa, Carex paniculata | Feb | 1 x 1/2 in

1908. C muscigena Fr (from its habit, borne on mosses, muscus, moss, gigno, to bear) a b c

Membranous soft, becoming plane, subdimidiate, externally silky under a lens Hym slightly wrinkled, shining-white, becoming pale brown

Various mosses, uncommon Sept-Jan # in Varied in form, fan shaped, spathulate, etc. Sometimes stipitate, sometimes \$\frac{2}{3}\$ in across. This is Cantharellus levus Fr 1909 C catilla W G Sm (from its shape, like a small bowl, catillus) a

Submembranous, expanded, marg crisped, undulate Hym veined, pale grey or faint claret-brown

Often imbricate Moss and dead leaves Nov 3 in Closely allied to 1908

1909a C griseopallida Weinm (from the pallid grey colour, griscus, grey) a

Somewhat membranous, globose, then campanulate, sessile, floccose externally *Hym* even, smooth

Elm, elder, honevsuckle, lime, pine Dec 10 in A supposed variety of this, found on dead Carex paniculata and described by Berkeley, is 1916

1910 C fulva Berk & Rav (from the tawny colour, fulrus, tawny)

Membranous, cup-shaped, deflexed, externally hispid-tomentose, rich tawny-brown

Dead bark, alder, elm Inn 7 m

1911 C brunnea Phill (from the brown colour brunneus, brown) a b Subgelatinous sessile cupulate, grey-white-prunate at the incurved lacerate marg, dull brown or somewhat vinous umber, mouth oblique, base very dark Hym smooth, discoloured brown

Wood and bark, old elder trees 14 in

1912 C stupped B & Br (from the coarsely hispid coat, as if clad with tow stuppeus, made of tow) a

Erumpent, sessile, cupulate, brownish, becoming white Hym fuscous

Lroom Mar 25 in

1913 C alboviolaseens Karst (from the pallid violet hymenium, albus, white) a p c

Cupulate, sessile or nearly so, densely villous, white Hym even, pallid, tinged with violet

Gregarious, often proliterons Wood, bark, twigs, burdock, nettle, thistle, holly, broom, hlac, sloe, oak, rose, poplar, ferns, clips Oct -Junc 3; in

1914 C villosa Karst (from the villose coating) a b c

Sessile, spherical with a contracted mouth, whitish

Stems, lerves, branches, potato, vinc, elder, burdock sow thistle, butter bur, dog wood, fennel strawberry, Lathy in praterist, Chropodium. Oct -June \$\frac{1}{8}\tau \frac{1}{2}\tau \text{ In I his and 1913 are much alike, both very white villous externally, with hymenum often wholly hidden. Distinguished by the colour of the hymenum

1915 C dochmiospora B & Br (from the oblique spores, Gr dochmos, oblique)

Minute, cupulate, villous, mouth subconnivent, white

Twigs, stems of herbicious plants, etc Oct 14-18 in

1916 C Berkeleyi Mass (after the Rev M J Berkeley) a

Sessile, globose, then expanded, at length campanulate, minutely pilose, reddish-grey as is the even hymenium

Dead Carex paniculata Jan 13-13 in Berkeley considered this to be a form of 1909a Mussee his made it a species, owing to a difference in size of the spores and the different habitut

1917 C Bloxamii Berk & Phill (after the Rev A Bloxam) a b Floccoso-membranous, crenato-lobed, white villous externally Hym white, then pale yellow

Furze Mar - April Minute to 18 in

1917a C cyclas Cooke & Phill (from the shape, like the bivalve shell, Cyclas) a b

Conchiform, dimidiate, attached on one side, pendulous, clad with flexuous hairs, whitish *Hym* smooth, very pale rose-colour

Dead wood 1 in

1918 C pallida B & Br (from the pallid colour) a b c

Sessile, at first orbicular, then irregularly lobed, plane, densely tomentose to slightly hispid Hym at length wrinkled, pallid ochreous

Old stems of Clematis I stalba Nov - April 12 to 24 in

1919 C fraxinicola B & Br (from its habitat, bark of ash, Fravinus, colo, to inhabit) a b c

Orbicular, shortly villous, white Him light yellow, becoming fuscous Spece pale olive

Proliferous Dec -Feb Minute to 10 in

1920 C museicola Fr (from its growing on mosses, muscus, moss, colo, to inhabit) a b

Membranous, subsessile, cupulate, nodding, externally slightly fibrilloso-striate, marg slightly downy, repand, torn Hym even, whitish, rarely cinercous

Mosses, rare Dec -Mar 1 in

1921 C ochroleuca B & Br (from the yellow-white colour Gr ochros, pale yellow, hukos, white) a b

Membranous, cupulate, villous above, marg at length split Hym even, pale ochre, brighter than exterior

Sticks, bramble, rare July-Oct & in Karely stipitate

1922. C fuscospora Curr ex Cooke (from the colour of the spores, fuscus, dusky)

Sessile, white tomentose, marg connivent Hym becoming yellow Spores subglobose, punctulate

Bark 1-1 mm

XC SOLENIA Hoffm

(From the short pipe-like shape, Gr solen, a pipe)

Cylindrical, more or less contracted at the mouth, the external hairs in some species rough with particles of oxalate of lime, cavity covered with the hymenium Basidia tetras-

porous (Fig 105)

The species are all minute, rarely exceeding in in height. They grow, usually in crowded masses, on rotten wood They are closely allied to Cyphilla, but are distinguished by the densely crowded habit and by the cylinders never expanding

Fries has placed this genus in the Poliporacea, but each exlinder in Solema is a distinct Peziza-like plant and not comparable with a mere tube of one of the Polyporacea To be allied to the Polyporata each cylinder should be lined with minute basidia-bearing tubes





Species 1923-1925 anomala Fr x 5 with c section, X 20 1923, 1924 basidium nd spores x 500

Externally white Externally ochreous 1925

1923 S maxima Mass (from the comparatively large size of the spores maximus largest) a

Gregarious or subfasciculate not crowded subcylindrical, slightly contracted at base, externally villous with slender aseptate hyphæ rough with minute particles of oxalate of lime, whitish or pale buff, othreous when dry

Forming patches & x 1 in Max 占xxim Spores 5 x 3 # This is 1925, var cinerca Cooke

1924 S fasciculata Pers (from its growing in groups or fascicles) a bc Gregarious, usually fasciculate, cylindrico-clavate, externally minutely silky and almost smooth, sometimes faintly shaded, brownish-vellow

Willow, pine Nov - April 1 X 1 in Spores 4 4

1925 S anomala Fr (from its superficially anomalous or perhaps scattered character) a b c

Usually densely crowded, pyriform, forming effused scattered patches marg incurved pilose externally, varying from dull ochreous to ferruginous

Birch, willow, vine onk beech dog wood laz-Way 1x 2 in Spores 7 × 4 # Var , hia a Mass is somewhat smaller in size than type

FAM V CLAVARIACEÆ

Hymenium not distinct from the hymenophore Amphigenous somewhat fleshy fungi, vertical, branched or simple, never cornaceous or incrusting The branched species of *Clavaria* must not be confounded with certain cornaceous species of *Theliphora*

Species 1926-2000

KEY TO THE GENERA

Branched, sponge like Branches compressed, flat or leaf-like 91 % ARASSIS Branched to simple

ranched to simple	
Terete .	
Stem not distinct from club	92 CIAVARIA
Stem distinct from club, not usually springing from a	
sclerotium	96 PISTILLAKIA
Usually springing from a sclerotium	95 TYTHULA
Gelatinoso cartilaginous, viscid	93 CALOCERA
Hair like	94 PHRULA

XCI SPARASSIS Fr

(From its appearance as if torn to pieces Gr sparasso, to tear to pieces)

Fleshy, with flat leaf-like branches, composed of two plates, fertile on both sides Basidia tetrasporous Species continuous, hyaline (Fig. 106) Species 1926, 1926a

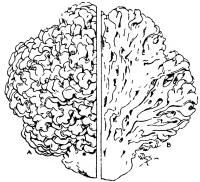


Fig 106 -A, B Sparassis crispa Fr, entire and in section One half natural size

1926 S. crispa Fr (from its crisped or curled appearance) a b c
Whitish to pale yellowish Very much branched, branches

recurved, intricate at apex, the whole forming a large sponge-like mass, stemless or with a short stout stem

Edible Odour very sweet of anse Beside fir trees and stumps, on dead fir leaves, terrestrial on heiths Sometimes attaining a dirmeter of 18 m and a weight of 2 or 3 lbs

1926a S laminosa Fr (from the leaf-like plates or layers of the entire plant lamina, a thin leaf) a

Very much branched, branches laminar, spreading, yellowish straw-colour

Woods Sept 10¼ x 7½ in Stronger smelling and softer than 1926, never fimbriate at edges, lamin clarge, loose

XCII CLAVARIA L

(From the club-like shape of some typical species clava, a club)

Fleshy, erect, branched or simple, branches somewhat round, with or without a distinct stem. Himenium continuous, dry, even, homogeneous. Basidia tetrasporous

Spores coloured or uncoloured For the most part terrestrial (Fig. 107)

Species 1927—1975

RAMARIÆ Branched branches at-

tenuate upwards

a Leûcosporæ Spores white or

nearly white

Red, yellow or violet

1927—1933 White or grev 1934—1942

b Ochrospora Spores pale

vellow, ochreous or cinna mon

Yellow, pinkish vellow or dull ochreous 1943—1949 Whitish, grev or violet

1950, 1951

Growing on wood

1952, 1953 Syncory & Clubs almost simple,

tufted at the base Reddish 1954—1956

Yellowish or white

1957—1963 Smol v or blackish 1964

Smoky or blackish 1964

HOLOCORYA. Clubs entire or simple or nearly so, distinct at the

Whitish Yellow or pallid, becoming darker Brownish or flesh-colour

1954—1956 Fig. 107—1, Clararia coralloides Losa (communicaris Fr. C. Institutos Holms, one third natural size D. C. 1957—1968 Postil'aris L. basidium and spores × 330

1965---1967

1968---1973

1974, 1975

There are analogous species in both sections of Ramaria which resemble each other in form and colour, but the Leucospora are somewhat brittle-soft and several of the species are considered edible, whilst the Ochrospora are spongy-tough and mostly bitter and unfit for food. The spore-colour, the taste and the substance, whether soft or tough, are salient characters

RAMARI &

a Leucospora

1927 C flava Schæff (from the frequent light vellow colour, flav us, light yellow) a c

Very much branched, branches cylindrical, vertical, even, obtuse, yellow Trunk thick, fleshy, white

Flable Woods, pine $6\frac{1}{4} \times 5\frac{3}{4}$ in Fragile Must not be confounded with 1943

1928 C botrytis Pers (from the deep vinous purple colour of the ultimate branchlets Gr botrue, a cluster of grapes) a b c

Wholly white, buff salmon yellow, brownish etc sometimes more or less claret-colour. Much brunched brunches swollen, unequal, somewhat wrinkled rose or brown-crimson at the upices. Trunk thick, unequal

Odour very pleasant Woods, mixed pine, beech uncommon Aug -Nov 5 x 5\frac{1}{2} in

1929 C amethystina Pers (from the amethyst colour) a c

Very much branched branches round even, obtuse equal, purple, bright purple with a bluish shade or purple-lavender Said to produce violent colic

Grassy woods and pastures uncommon ${\rm Aug-Oct} \ 2\times 2\frac{3}{4}$ in Myc lavender whitish or pale cobalt

1930 C fastiglata L (from the parallel clustered and erect branches in some cases the branches decrease in height outwardly, giving a sloping, obconic or gable-shape to the plant futgigum, a slope a gable) a b c

Very much branched, branches short, divariente, slightly tough, brittle towards base, egg-yellow, apices light vellow to fuscous Usually cuspitose Shightly fragrant Pastures, very common Aug – Mar 14 × 28 in

1981 C museoides L (from a fancied resemblance to a tuft of moss, muscus, moss, Gr cidos, appearance) a b c

Twice or thrice forked, becoming slender, branchlets crescentshaped, acute, slightly tough, base tomentose, yellow

Solitary Pastures, frequent Aug -Oct $3 \times 3\frac{1}{8}$ in

1932 C kewensis Mass (from its first observed place of growth, Royal Gardens, Kew) a

Branches numerous, repeatedly and dichotomously divided, axils rounded, trunk very short, dull ochreous

Odour strong, spicy, resembling 168 or 1437 Rotten stumps, under holly April 13 x 23 in

1938 C curta Fr (from its short stature, curtus, short) a b

Very much branched, adpressed, branches short, crowded, obtuse, stem none, but there is usually a fleshy base, greenish-yellow

On the ground, on fir leaves Oct 1 to 3 in

1934 C coralloides L (from its appearance, like white coral, Gr ειδος, appearance) a b c

Branches unequal, dilated upwards, branchlets crowded, acute, trunk somewhat thick, repeatedly and irregularly much branched, base not downy, somewhat fragile, hollow within

Commonly cuspitose Hubble sold for food in markets of Italy Shady woods, rare Oct -Nov $5\frac{1}{4} \times 5\frac{3}{8}$ in Sometimes faintly shaded buff

1935 C cinerea Pers (from its ashy colour, cinis, ashes) a b c

Branches and branchlets thickened, irregularly shaped, somewhat wrinkled, subobtuse trunk somewhat thick, short, very much branched, fragile, stuffed

Woods, mixed, fir, frequent Aug -Nov $5_8 \times 4_5^7$ in

1936 C umbrina Berk (from the colour, usually pale brown, umbrinus) a

Slightly branched, branches and branchlets cylindrical, obtuse, forked, pale umber to salmon-yellowish

Woods, lawns, etc July-Oct 28 in

1937 C cristata Pers (from the crested apices of the branchlets, crista, a crest) a b.

Branches dilated above, acutely incised, crested, tough, even, stuffed, white, crests at length becoming pale buff

Somewhat cuspitose Woods, mixed, pine, frequent June-Nov $3\frac{1}{8} \times 3\frac{1}{8}$ in

1937a C gigaspora Cotton (from the large spores Gr , rigas, a giant) a

Irregularly branched, branches sometimes palmate, erect, terete or compressed, much compressed at the acute axils, ultimate branches attenuate, apices blunt, greyish with a shade of yellow

Cespitose, but distinct at the base, or solitary. Amongst moss on rocky heathy slopes. Not. 1½ × ½

1988 C rugosa Bull (from the wrinkled stem, ruga a wrinkle)

Sparingly branched 'o simple, thickened upwards, irregularly shaped, tough, white

Edible Woods, beech, pastures, very common Aug -Dec 5 in Var macrospora W G 5m, C macrospora Britz Spores longer and somewhat larger than type Type 7-10 µ Var 8-10 × 12-14 µ

1939 C Krombholzii Fr (after Julius Vicenz von Krombholz) a b c Slightly branched, even, branches somewhat compressed, obtuse, not wrinkled, fragile, white

C'espitose Old pastures Sept 27 in

- 1940 C erassa Britz (from the thickness of the clubs, crassus, thick) a
- Much branched, branches obtuse, club-shaped, compressed
 Base attenuate downwards, violet
 - Solitary Not unlike 1938 and 1939 in habit, but differing in colour and in the attenuate base 3 in
- 1941 C Kunzei Fr (after Karl Sebastran Heinrich Kunze) a b c
 - Very much branched from the thin caspitose base, branches elongate, crowded, repeatedly forked, fistigrate, even equal, axils compressed somewhat fragile, white

Woods, rare Aug-Sept 21 in

- **1941a** C subtilis Pers (from its small and slender habit subtilis, fine, slender) a
 - Tough, thin, glabrous at base, of equal thickness throughout, branches few, dichotomously forked and somewhat fastigiate, white becoming yellowish

Amongst grass Sept 11 in

- 1942 C pyxidata Pers (from the shape of the palmate ends of the branchlets in typical examples, like a small box prixis) a c
 - Trunk thin, smooth, branched in an umbellate manner in typical examples palled to tan, somewhat rufescent, varying ivory and sulphur-white branchlets taking a cup like shape at the cuspo-radiate apices
 - On the ground, on sticks pine 24 in This has a tendence to form primary and secondary unihels, the latter with from 5 to 9 riss when the branchlets are short the apiecs have a function resimbance to little boxes.

b Ochrospora

- 1943 C aurea Schæff (from the golden colour aurum gold) a b c Trunk thick, elastic, soft, divided into stout tense straight very dichotomous round obtuse somewhat toothed branches, buff, pale yellow, pale reddish, or pale salmon Fleshy stem sometimes absent
 - Woods, mixed fir, beech Aug -Oct 5 x 5\$ in Mus, not be confounded with 1927
- 1944. C rufescens Schæff (from the red apices of the branchlets, rufesco, to become red) a b c
 - Trunk thick, elastic, tan or pale salmon much branched, branches multifid, crowded, somewhat fastignate even, tan, pale salmon or pale vermilion, with red, crimson or vermilion apiecs

On wood Sept 41 × 4 in

1945. C formosa Pers (from its beauty, formesus, beautiful) a b c Trunk thick, elastic, ivory, pale buff or pale olive-brown, darker below, much elongato-branched, branchlets obtuse, luminous

yellow, salmon or salmon-buff, apices sometimes orange or sulphur

Odour pleasant Downs, commons, woods, pine, rare July-Oct 43 × 6 in

1946 C spinulosa Pers (from the attenuate spine-like branchlets, spinulosus, spined) a b c

Trunk short, somewhat thick, pale yellow, branches crowded, tense, straight, attenuato-pointed, yellow-orange, dull yellow or warm brown

Woods, fir, beech, mixed Sept 5 x 6 in

1947 C abietina Pers (from the habitat, under fir, abics) a b c

Trunk short, somewhat thick, very much branched, branches crowded, branchlets tense, straight, acute, olive-ochre or olive-sienna-ochreous, becoming green where touched

Taste bitter Under fir, larch, common Aug -Dec 3 x 3 in

1948 C flaceida Fr (from its flaceid habit) a b c

Stem thin, very short, very much branched, branches crowded, even, unequal, acute, flaccid, often drooping, ochreous or buff Amongsi leaves and moss in woods, pine, rare Oct 3 x 2½ in

1949 C crocea Pers (from the saffron colour, croceus, saffron) a b Minute, thin, stem naked, pallid or yellow, branches and branchlets orange-scarlet

Downs, gardens, on peat Sept-Feb $\frac{3}{4} \times \frac{1}{2}$ in The general appearance is not that of a true Basidonycuce, it his somewhat the appearance of a slender minute branched Calocera

1950 C grisea Pers (from the grey colour, griseus, grey) a b c

Trunk somewhat thick, firm, often rooting, whitish branches and branchlets attenuate, somewhat wrinkled, fuliginous-cinereous

Woods , rare Sept -Oct 4×5 in Sometimes confounded with 1935, in which the spores are white

1951 C condensata Fr (from the closely adpressed branchlets, condenso, to press close together) a

Tufts very dense, usually without a trunk, very much branched from the base, smooth, tan-rufescent or salmon, branches tense and straight, crowded, even, fastigiate, twice or thrice-toothed, vellow

On the ground, under trees $3\frac{1}{2} \times 4$ in

1952 C stricta Pers (from the tense, straight habit, strings, to draw tight) a b c

Trunk short, thin, very much branched, branches and branchlets tense and straight, even, crowded, adpressed, somewhat acute, pallid yellowish or whitish-yellow to buff-tan, fuscous where bruised

Woods, pine, on and about stumps, sawdust, uncommon Aug-Nov $4\frac{1}{2} \times 3\frac{1}{2}$ in Often springing from cord like mycellium

1958. C erispula Fr (from the slightly curled branchlets, crispulus, slightly curled) a b c

Trunk very thin or obsolete, very much branched, branches flexuous, multifid, branchlets divaricate, tan to ochreous, buff or ochre, almost white below

Base of trees, ash, elder, rare Oct -Dec $3\frac{1}{2} \times 2\frac{3}{4}$ in

SINCORIN &

- 1954. C purpurea Mull (from the colour, purpureus, purple) a c C! elongate, hollow, then compressed, acute, fragile, opaque, claret-brown and slightly purplish to purple
- Cæspitose Under pine, rare Aug -Oct 3 g in
- 1955 C rufa Pers (from the reddish colour tufiw, red) a c Cl stuffed, thickened, fusiform, sometimes bifid, rarely trifid, pale warm brown, rarely bright red or orange-vermilion, apices darker with age

Cespitose Odour somewhat strong Sept 21 in

- 1956 C rosea Dalman (from the rose colour) a b c
 - Cl stuffed, fragile, pale to claret-pink or full rose-colour, apices attenuate or rounded, becoming yellowish with age

Somewhat fasciculate Pastures, amongst moss, rare 21 in

- 1957 C fusiformis Sow (from the fusiform clubs) a b c
 - Cl somewhat fusiform, apex acute sometimes bifid trifid or toothed, firm, soon hollow, bright yellow, apices fuscous Spores even
 - Caspitoso conna.e Amongst grass, woods, pastures, etc. common Sept-Nov. 5 in Sometimes intensely butter. Often confounded with 1988 and 1959 Var. coanandes. W.G. Sin., Clararia coanarde. Pers. unequal, divided above, branched, upper part often anther like.
- 1957a C luteoalba Rea (from colour of the club, yellow below, white above luteus, yellow, albus, white) a
 - Cl simple, stuffed, attenuate to base, apex acute to blunt, deep rich yellow, apex constantly white

Fasciculate or scattere 1 Amongst grass and bracken Sept -()ct 2 in

- 1958 C dissipabilis Britz (from the scattered habit dissipabilis, dissipated, scattered) a
 - Cl elongato-clavate, apex rounded, rarely subacute, round or compressed and channelled, solid, collapsing, fragile, even, glabrous, deep orange yellow Spores spinulose
 - Solitary or in small clusters Short grass in pastures, roads, woods, common Oct 25 in Often confounded with 1957 and 1959
- 1959 C inæqualis Mull (from the clubs being often unequal in diameter and more or less unevenly compressed, inæqualis, unequal) a b c
 - Cl variable, usually simple and rounded above, narrow or

inflated, fragile, stuffed, rarely bifid, yellow, usually paler than 1957 and 1958 Spores even

Somewhat fasciculate or gregarious Amongst grass, woods, pastures, very common Aug -Nov 4\frac{9}{2} in Often confounded with 1957 and 1958

1960 C argillacea Pers (from the colour of clay, argilla) a b c

Cl usually simple, variable, sometimes short and obese, rarely with short rounded obtuse branchlets, apex rounded, sometimes in hammer-form, whitish-yellow to brownish-buff or buffivory, rarely sulphur, base yellowish

Usually fa-ciculate Woods, amongst moss, under firs Aug -Nov 45 in

1961 C vermicularis Fr (from a fancied worm-like shape, vermis, a worm) a b

Cl stuffed, cylindrical, flexuous, acutely pointed, fragile, white, apices at length somewhat yellowish, base often faintly brownish

Cx-pitose Amongst grass, pastures, roadsides, very common May-Oct $4\frac{1}{4}$ in

1962 C fragilis Holmsk (from its brittleness, fragile) a b c Cl soon hollow, obtuse and rounded above, rarely forked, white, sometimes ivory, yellowish or pale brownish, white below

Fasciculate Pastures, roadsides, common Aug-Not 3

1962a C Michelii Rea (after Piero Antonio Micheli) a

Cl thin, cylindrical, hollow, apex acute, very fragile yellow, white at the base

Fasciculate On the ground under trees, cherry Sept This plant should not have been named Michelu, as Micheli's plant, Nova Plant Genera, t 87, figs 6, 10, is stout, obtuse and white According to Fries this is C fragilis

1963 C striata Pers (from the striate clubs) a

Cl elongate, compressed, somewhat tortuoso-flexuous, somewhat longitudinally striate, subfuliginous or pale dull to dark brown Caspitose Woods, amongst grass, rare Sept 3\\$ in

1964 C fumosa Pers (from the smoky colour, fumus, smoke) a b C? even, usually tense and strught, somewhat compressed, fistulose, fragile, apices rounded or acute, fuliginous or yellowish dull umber

Fasciculate Pastures, uncommon Aug -Sept 41 in

HOLOCORVNÆ

1965 C canaliculata Fr (from the small longitudinal channels on the clubs , canaliculus, a small channel) a

Cl rarely somewhat branched, slightly tough, hollow, very smooth, at length compressed or split longitudinally, white or shaded faintest salmon

Solitary, sometimes in pairs, rarely in threes $\,$ On the ground $\,$ 3 $^{3}_{4}$ in

- 1965a C tenerima Mass & Crossl (from its tender substance, tener, tender)
- Cl cylindrical, flexuous, somewhat attenuate above, base not narrowed, hyaline white
 - Gregarious but distinct at base Amongst short grass 1½ in Resembles 1962 in habit
- 1966 C acuta Sow (from the sharp pointed clubs, acutus, sharp)
 - Tense, straight with a translucent stem distinct from the opaque club, white
 - Solitary Sides of damp ditches, in garden pots, rare Sept-Nov I in Hardly a Clavaria Soweiby's original drawing has the appearance of a Torrubia growing on a dead chrysalis perhaps a Pistillaria
- 1967 C uncialis Grev (from its usual length about one inch, uncia)
 - Cl stuffed, tough, tense and straight obtuse, smooth, white, sometimes shaded faintest rose, becoming pale amber
- Dead stems of herbaceous plants, umbellifers uncommon May-Nov I in
- 1968 C pistillaris L (from the pestle shape pistillum, a pestle) a b c Fleshy, stuffed, ovato-clavate, obtuse light yellow to brownishtan or rufescent
 - Solitary Taste bitter odour not unpleasant Woods amon, st ferns and leaves, roadsides under hedges, uncommon Sept Nov 118 in
- 1969 C ligula Schaeff (from the shape like a small tongue or strap, ligula) a c
 - Spongy-fleshy, elongato-clavate, obtuse, rarely slightly forked, villous at base, yellowish to pallid rufescent, rarely pale red
 - Gregarious Woods, fallen twigs and branches, amongst fir leaves, moss
- 1970 C contorta Holmsk (from the usually twisted shape, contortus, twisted) a b c
 - Contorted, wrinkled, obtuse, sometimes attenuate upwards or broadly spathulate, rarely briid, spongy-fleshy, stuffed, wateryyellowish to somewhat pale olive-yellow
 - Solitary or cospitose Wood, twigs, alder rare Sept Nov 4 in
- 1971 C fistulosa Holmsk (from the hollow clubs, fistula, a pipe) a c Slender, tense, straight, hollow, light yellowish, yellow, ivory-buff or buff to orange and rufescent, rooting and villous below Twigs, branches, etc. 94 in
- 1972 C tuberosa Sow (from the tuberous base) a b
 - Tough, even, aculeate, hollow, tuberous and solid below, held to the matrix by flocci, ochre to somewhat pale salmon-umber
 - Cæspitose Sticks, birch, bursting through the bark Nov 3 in
- 1978 C juncea Fr (from the rush-like shape, juncus, a rush) a b c Filiform, flaccid, hollow, acute, pallid to rufescent or yellow, pale ochre or pale orange, base creeping, fibrillose
 - Gregarious Woods, amongst leaves, twigs and moss, fir, poplar, beech, oak Sept-Nov 5 in Sometimes hair like in thinness, the base

spreading over leaves Sometimes certain individuals spring from a small orange brown sclerotium as in *Typhula* or a white base t_0 in in diam. Must not be confounded with 1986 or 1992

1974 C ardenia Sow (after Lady Arden) a b c

Apex of the very hollow inflated Cl acute or rounded, then more or less collapsing and becoming depressed, brown-ochre with an olive shade or date-brown, base creeping, white tomentose

Fallen branches, amongst fir leaves, under laurels, on rotting hazel sticks , rare $- \cot - Dec - 8\frac{1}{2}$ in

1975 C inearnata Weinm (from the flesh colour, incarnatus, flesh-coloured)

Solid, cylindrical, flesh-colour, internally purple

Gregarious On the ground

XCIII CALOCERA Fr

(From the shape and colour, like beautiful horns, Gr kalos, beautiful, keras, a horn)

Gelatinoso-cartikaginous, horny when dry, somewhat cylindrical, simple or branched, viscid, without a distinct stem *Hymenium*

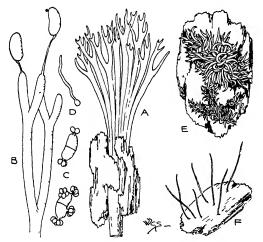


Fig 208—A, Calocera viscosa Fr two thirds natural size B basidia and spores of ditto C spores germinating and producing sportdol* D sportdolum germinating X 600 E C cornea Weimin F C stretcle Fr two thirds natural size

amphigenous Bandia furcate or bilobed, each lobe bearing a single one-spored sterigma Spores oblong, curved, septate on germination, producing heads of ellipsoid sporidiola as in the Trimellinacea (Fig. 108)

Growing on wood

Species 1976—1982

Branched Cæspitose 1976, 1977 1978, 1979

Simple, solitary

1978, 1979

1976 C viscosa Fr (from its viscidity) a b c

Branches more or less vertical, repeatedly dichotomous, orange, the rooting base paler

Rotten wood, stumps, chiefly pine, very common Julv-1)cc $2\frac{1}{2}$ in Base $2\frac{1}{2}$ in

1977 C palmata Fr (from the palmate branching) a c

Tremelloso-tough, compressed, dilated upwards and more or less horizontally palmato-divided, orange-yellow or orange

Wood ¾ in

1978 C cornea Weinm (from the horn-like shape cornu a horn)

Simple, awl-shaped, sometimes bifid rarely trifid, connate at base, rooted, even, orange

Dead wood, pine, oak, beech, willow, birch, old deal boards frequent June-Feb § in

1979 C corticalis Fr (from the habit, piercing, through bark, cortix) a c

Awl-shaped CI somewhat distinct, soft, pellucid, pallid flesh-colour

Dead bark Dec - Ian 3 in

1980 C stricta Fr (from the habit, tense and straight, structus) a b c Linear, sometimes slightly spathulate, yellow, sometimes brownish below

Ash, naked wood Oct I in

1981 C striata Fr (from the striæ on the clubs) a b Lanceolato-clavate, tough, acute, striate when dry, yellow

Wood, prostrate trunks March 1 in

1982. C glossoides Fr (from the tongue-like shape, Gr $\[loss a \]$, the tongue, ados, appearance) a b c

Clavate, subtremellose, obtuse, compressed, stem round, light yellow

Oak Dec 1 in

XCIV PTERULA Fr

(From a fancied resemblance to a little wing, Gr pteron, a wing)

Subcartilaginous, filiform, and, stemmed or stemless, branched in the two British species, subulate, apices attenuato-acute, branches

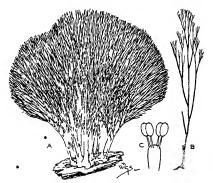


Fig. 109—A, I term $is nh^n 'at i$ Fr., natural size B single branch of ditto C basidium and spores of F = m dtifidi Fr. \times 300

somewhat anastomosing, pubescent then smooth Basidia tetrasporous When young the stems and branches are considerably thicker than when mature (Fig. 109)

The cartilaginous substance indicates a relationship with Tremellinacca and Calocera, the basidia and spores are typical of the Clavariaca Species 1983, 1984

1983 P subulata Fr (from the awl-shaped branches, subula, an awl) a c

Densely crowded, sparingly branched, tense, equal, the threadlike smooth branches multifid at the acute apices, whitishcinereous, becoming yellowish

On wood, amongst pines gardens 13 in

1984 P multifida Fr (from the many branchlets, multus, many, findo, to cleave) a b c

Very much branched, very delicate, flaccid, branches tense, straight, usually hair-like, variable in thickness, apices attenuate, pointed, base sometimes thick or with several confluent stems, at first pallid whitish then dull pale yellowish or sulphury-brown

Branches, leaves, bases of dead ferns, etc Sept -Nov 2 in

XCV TYPHULA Fr

(From a fancied resemblance in some of the species to a minute *Typha* or reed-mace)

Small thread-like fungi with a long or short filiform-stem, heterogeneous from the linear or slightly inflated club, often springing from a small sclerotium Hymenium way, (Fig. 110)

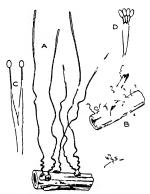


Fig 110—A T3 phula phacorrhiza Fr one half natural size B T gracillima White one half natural size C basidium and spores of T gracilis Berk & Desm D ditto of T erythropus Fr X 100

Growing on twigs, leaves, etc, rarely terrestrial, but the sclerotia will readily grow in earth if planted Species 1985—1995

a Phacon hize Springing from a sclerotium 1985—1989

b Leptor hiza Sclerotium absent 1990—1995

The characters as given by Fries are far from permanent, all the species of *Typhula* may grow with or without a sclerotium. A sclerotium sometimes occurs in the allied genera, *Clavaria* and *Pistillaria*

a Phacorrhisæ

1985. T erythropus Fr (from the red stem, Gr eruthros, red, pous, a foot) a b c

Cl linear or nearly so, cylindrical, smooth, white St elongate, filiform, usually bent or variously twisted, finely pubescent under a lens, crimson-brown Scl 1/20 in or less, depressed,

sometimes hidden beneath a thin bark or membrane and easily overlooked, brown, dark-brown when dry, sometimes absent

Leaves, sticks, poplar, ilder, ash, sunflower, common Sept -Nov 1 in The sclerotium is Selection stutellatum A & S

- 1986 T phaeorrhiza Fr (from the lentil-like base, Gr phakos, a lentil, rhiza, a root) a b c
 - Cl linear, cylindrical, pallid to ivory and orange St linear, confluent with club, clongate, flexuous, yellowish, pilose at the sometimes fuscous base Scl 1, in or less, pale brown or buff, reddish-brown when dry
 - Woods, hedgerows, gardens, herbaceous stems, leaves, moss, plane, hazel, alder, ash, apple, sometimes on earth, uncommon, but sometimes found in considerable abundance in patches Oct-Nov 4½ in Must not be confounded with 1973 or 1992 The sclerotium is Scierotium scutellatum A & S and S complanatum Tode
- 1987 T incarnata Fr (from the flesh colour, incarnatus, flesh-coloured) a c
 - CI cylindrical, obtuse, rarely forked, flesh-colour or white, more or less tinged with salmon-pink above St continuous with the club, pilose downwards St 1 in or less, compressed, fuscous

Dead herbaceous stems uncommon 34 in Closely allied to 1986. The scleronum is Selevotium full in A $\,\Delta$ S

- 1988 T gyrans Fr (from the twisted habit &170, to turn in a circle) a b c White
 - Cl cylindrical St filiform, gyroso-undulate pubescent Sa 3,0 in , pallid to orange and brown becoming fuscous

Straw, twigs, leaves, alder, poplar, uncommon Oct $\frac{1}{2}$ in The sclerotium is Sclerotium complanatur. Tode

1989 T muscicola Fr (from its habit, living on mosses muscus, moss, colo, to inhabit) a c White

Cl elongate, cylindrical obtuse St thin, smooth Scl $\frac{1}{10}$ in, even, pallid

Larger mosses, uncommon 11 in

b Leptorrhiza

1990 T Grevillei Fr (atter Dr Robert Kaye Greville) a b c
White

C1 thickened, obtuse St capillary, pilose white

Dead leaves frequent Oct 1/2 in Only distinguished from 1988 by the absence of a sclerotium

1991 T gracillima White ex B & Br (from the very slender habit, gracilis, slender) White

Cl elongate St very slender, curved, smooth

Various herbaceous plants 1 in

- 1992. T filiformis Fr (from the thread-like stem, filum, a thread, forma, form) a b c 11.
 - 'CI elongate, thickened, smooth, whitish St often branched, decumbent, date-brown
 - Dead leaves, holly, Comptonia asplentfolia, matting rare Nov 2\(\frac{2}{8} \) in Sometimes springing from a very small sclerotium Must not be confounded with 1973 or 1986
- 1992a. T tenuis Fr (from its attenuation tenuis, thin) a
 - C1 simple, glabrous, hair-like, thickening upwards, brown-black Gregarious On rotting wood in cellar ½ to ½ in "It resembles a little black hair thickening upwards," Sowerby
- 1993 T graeilis Berk & Desm (from the slender habit racalis, slender) a b Pallid
 - Cl simple or forked, acute, pubescent St short, distinct, smooth or as club
 - Putrid leaves uncommon Dec 1/6 in Has the appearance of Isaria fuberula, but bears bisporous basidia
- 1994 T pusilla Schroet (from its very small size pusillus, very small) a White
 - Cl linear, usually drooping St linear
 - Horse tail, plane, willow with elm, alder 1/2 in Leaves often covered with minute sclerotra, from which the Tiphula sometimes springs
- 1995 T translucens B & Br (from its translucent substance) σ Pellucid white
 - Cl irregular, somewhat obovate St short, thickened upwards
 Terristrial Oct "Not a fungus," Massee, Brit Fint, Fl vol 1 p 91
 "Resembling somewhat a prem turely dried Mysogast, but a true Bisidio
 mycete," B & Br in Ann Mag Nat Hitt ser 4, vol xvi p 138

XCVI PISTILLARIA Fr

(From the form, like a pestle, pistillum)

Small, club-shaped or attenuate downwards into a short continuous stem, rarely forked, cartilaginous and rigid when dry, sometimes springing from a sclerotium (Fig. 111) Species 1996—2000

- 1996 P tenuipes Mass (from the thin stem, tenus, thin, pes, a foot) a
 - CI inflated, obovate, wrinkled, pallid clay-colour or ochre SI slender, flexuous, somewhat distinct from the club, ivory

 Bare heathy ground, charcoal heaps Nov-Jan 1 in Clavaria tenuities

 B & Br
- 1997 P micans Fr (from its glistening surface, mico, to glisten) a b c
 Cl inflated, obovate, obtuse, smooth or slightly pruinose,
 glistening rose-colour, rarely purplish St short, attenuate,
 - white

 Dead stems and leaves, thistles, nettles, spurge, Artemisia, rare July h in

- 1997a P fulgida Fr (from its shining colour, fulgeo, to shine) a Cl lanceolato-clavate, subacute, white or pale orange below, yellow or orange above
 - "On the bracter of Dipsacus pilosus," Sowerby | in

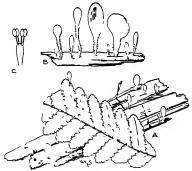


Fig 111 - A Pist i ari i puberula Perk natur d size B ditto X ,
basidium and spores X oo

1998 P culmigena Fr cx Mont (from its habitat, grass-stems, culmus, a haulm, gigno, to bear) a b c White

Cl ovato-clavate, obtuse, hyaline-pellucid Si distinct, very short cartilaginous when dry

Stems and leaves of stasses, Secale, Tr ticum, Dactylis glomerata Oct-

1999. P quisquiliaris Fr (from its habitat, sweepings, rubbish, etc, qui quida) a b c Whitish

C1 ovato-clavate, somewhat compressed, rarely bifid, soft when fresh, rigid when dry S1 short, often springing from a selection.

Fern stems, oak wych elm, grass, willow herb, Charophyllum April-Nov

1999a P ovata Fr (from the ovate shape) a

Cl obovate, ventricose, subdepressed, hollow, white St very short, glabrous, pellucid

Dead stems and leaves, birch, bramble, poplar, elm, willow 1 in

2000 P puberula Berk (from the tomentose stem, pubes, downy)
a b c White

Cl ovate, ventricose St short, distinct, attenuate upwards, pellucid, fibrous, tomentose

Ferns, stems and leaves of herbaceous plants, rare Sept -Oct 12 in

2000a P pusilla Fr (from its very small size pusillus, small) a

Small, linear, attenuate upwards, stem scarcely distinct, white

Dead leaves Feb 1-8 in

FAM VI TREMELLINACEÆ

Entire fungus homogeneous, gelatinous, collapsing when dry, retaining its form when moistened, traversed internally by branched hyphæ which terminate in basidia at the periphery. Basidia variable in form, elongate or fusoid, transversely septate or continuous, undivided or forked at the apex, or subglobose and longitudinally divided and bearing 2 to 4 sterigmata. Spores hyaline, from globose to sausage-shaped and curved, continuous or septate, often becoming variously septate on germination and producing sporidiola of different forms.

Species 2001—2041

KEY TO THE SUBFAMILIES AND GENERA

ersely septate		
		AURICUI AKIOIDEÆ
9	7	AURICULARIA
		HIRNFOLA
itudinally		
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lobed 9	Q	EXIDIA
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10	1	TREMELLA
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10	3	Gyrocephalus
Subfamily III	Ĭ	DACKY OMY CETOIDEÆ
		DACKYOMYCES
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SLBFAMILY I AURICULARIOIDEA.

Basidia elongate or fusoid, simple, transversely septate
Species 2001—2008

XCVII AURICULARIA Bull

(From a fancied resemblance in some of the species to an ear, auricula)

Subconaceous or gelatinous when moist, broadly attached Hymenium remotely and reticulately costate or plicate, collapsing when dry Basidia cylindrical, transversely tri- quadri- or quinque-septate, each joint or cell producing a single, slender stengma from its apex Spores oblong, curved, producing on germination a branched promycelium bearing several strongly curved spondiola (Fig 112)

A genus of fungi greatly resembling Stereum in habit, and perhaps more nearly allied to the Thelephoracca than the Tremel-

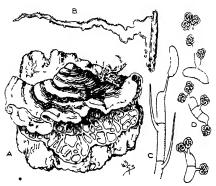


Fig. 112—A B. Auri ultrix misinterica Pers. entire and in section. One half natural size c basidium and spore. 15 spores germinating and producing sporidola. X 500

linacae, the fructification is, however, very different from that of Thelephora, while the strigose cartilaginous pileus differs from typical Tremellinacae. The next genus Hirneola is clearly allied to Auricularia in habit, substance and fructification. Species 2001, 2002

2001 A mesenterica Pers (from a fancied resemblance to the mesenteric membrane) *a b c*

P resupinate, then reflexed, entire or slightly lobed, villous, yellowish, often green at base from algal growths, z brownish Hym costato-plicate, brownish-violet, livid-purple or grey-liver

Taste insipid odour none 1runks, stumps, beech, elm, walnut, vine, chistnut, furze, broom, yew, frequent Jan Nov 8½ in Sometimes terrestrial, springing from buried wood, and then sometimes not unlike Sticka pulmi waria in appearance

2002. A. lobata Sommerf (from the lobed pileus) a b c

P effuso-reflexed, much lobed, strigose or velvety, warm yellowishbrown, z darker, often green at base from algal growths Hym broadly reticulato-ribbed, fuscous-livid

Bark of trees, elm, not uncommon $4\frac{5}{8}$ in Closely allied to, if not identical with the last, the fruit is the same

XCVIII HIRNEOLA Fr

(From the jug-shape when young his nea, a jug)

Gelatinous or cartilagineo-gelatinous, soft and tremelloid when moist, cup- or ear-shaped *Hymenium* gelatinous, even or plicate, barren under-surface minutely velvety, attached by a point, coriaceous



Fig. 113 — A. B., Hirmania Auri ula Jud. Pe k. entire indirisection. One half nat. l. ize. c bashdum and spores. p. spores germinating and product $\mu_{\rm b}$ sportd (l. $\mu_{\rm b}$ sportdold germinating X 500

and membranous when dry, reviving with moisture. Busidia rod-shaped or fusoid, transversely septite, each cell bearing a single monosporous sterigma. Sports oblong, curved becoming 1–3 septate and on germination producing minute sportdiola sometimes on septate promycelium. (Fig. 113.)

2008 H Auricula-Judæ Berk (" Jew's-ear") a b c

P thin, concave, flexuous, somewhat veined, tomentose, brown flesh-colour to reddish-brown or blackish. Hym venoso-plicate, glossy salmon, warm brown or reddish purple-black when dry

Cespitose Trunks, elder, elm, willow, walnut oak, holly, Robinia, frequent Jan Dec 3 in Much like Perra visiculusa in appearance when young Formerly used as a remedy for dropsy Laten by inhabitants of Ukraine

SUBFAMILY II EUTREMELLINOIDEÆ

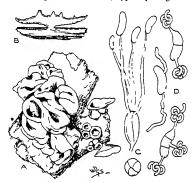
Basidia subglobose, at maturity longitudinally quadripartite and producing at the apex two to four elongate sterigmata

Species 2004-2029

XCIX EXIDIA Fr

(From the exuding receptacle, Gr exidio, to exude)

Gelatinously distended, tremelloid, irregularly gyrose and lobed, submarginate or effused, often papillose, when young cup-shaped and truncate Basidia globose or ovoid, typically longitudinally four-



In the state of t

partite, bearing four clongite stout steriginata. Sports reinform, for a long time continuous, becoming 1- to many-septate on germination each cell or loculus of the spore giving origin to a very short promycelium bearing a crown of strongly-curved spondiola (Fig. 114.)

Species 2004—2007 *a Auriculina* Perizoid 2004. 2005

b Spiculariae Somewhat plane, not lustrous beneath, glandular, here and there grose 2006, 2007

a Auriculina

2004 E truncata Fr (from its appearance as if cut short trunco, to main, shorten) a . Soft, distended, shining black

Disc truncato-plane, glandular, at length caveinous, rough with dots beneath 5/ very short

Bursting through bark lime, willow Dec 15 in Like 2006 on a small scale

2005 E recisa Fr (from its appearance as if cut back, recido, to cut short) a b c

Very soft, warm yellow-brownish or brownish-vinous Disc truncato-plane, ribbed, papillose, somewhat repand, rough with dots beneath St very short excentric

Branches, willow, poplar, plum common Sept -Dec 11 in

b Spiculariæ

2006 E glandulosa Fr (from the glandular hymenium) a b c

Effused, thick, somewhat plane, undulate, sometimes pendulous, and 8 to 10 inches long, the upper hymenial surface papillose and somewhat veined, the lower surface next to the matrix crape-like to the touch and lustreless, black, blackish, purpleslate or olive-blackish

Tasteless Branches, oak, willow, Ailanthus, lime, alder, walnut Aug Mar 5½ in When young somewhat cup shaped and like one of the Pease or Eulzaria inquinans in appearance. Translucent when quite fresh "Witch Stutter"

2007 E albida Bref (from the whitish colour albus, dead white)

Tough, undulate, subgyrose, prumose, white or faintly shaded avory or lavender

Branches, birch, beech, alder, pine, hawthorn Sept - May 12 in

C ULOCOLLA Bref

(From its glue-like consistency and appearance Gr oulos, shaggy, kella, glue)

Sporophore convex, pulvinate, gyrose, cerebriform, gelatinous, rather large Basidia globose, soon longitudinally quadri-partite

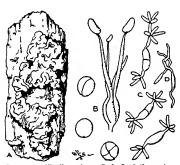


Fig 115—A Ulocolla saccharina Bref One half natural size B basidia and spores C, spores germinating and producing sporidiola D, sporidiola germinating X 500

Sterigmata elongate, thick Spores for a long time continuous, then uniseptate, reniform, each loculus on germinating giving origin to a very short promycelium bearing at its apex straight rod-like spondiola (Fig. 115)

Species 2008, 2009

2008 U saecharina Bref (from the colour, like one kind of sugar, saccharon) a b c

Effused, tubercular, gyroso-undulate, thick, sprinkled with a few minute obtuse evanescent papillæ, tawny cinnamon

Branches, larch, pine, rare Nov 3 in

2009 U foliacea Bref (from a fancied leafy or lamellate appearance. folium, a leaf) a b c

Flaccid, even, diaphanous, undulate, plicate at base, cinnamonsalmon or vinous-buff, sometimes shaded yellowish

Cespitose Stumps, logs, rails, etc., pine, oal., amongst fir-leaves, spreading to the ground Aug -Jan 3½ in

CI TREMELLA Dill

(From the jelly-like tremulous substance)

Pulvinate or effused, brain-like or lobed, gelatinous, tremelloid, immarginate, generally smooth *Basidia* globose, sometimes bifid or

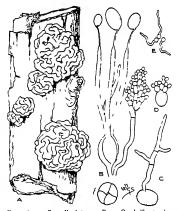


Fig 116—4 Fremell's lutescens Pers One half natural size B basdium with surface view b, spores and condia c spore germinating and producing hyphæ b ditto producing sporidiola E sporidiola geninnating X 500

trifid, but usually longitudinally quadripartite, each quadrant of the basidium elongating into a long, stout stengma Spores subglobose,

continuous, on germination a tube is formed that is covered with broadly elliptical sporidiola Conidia when present, as in 2012, 2013 and 2021, subglobose, racemose in sporiferous conceptacles in the sporophore (Fig 116) Species 2010—2024

a Mesenteriformes Cartilagineo-gelitinous lobes large, foliaceous, not prumose with spores, caspitose

b Cerebrina Lobes short, contorted brain-like, pruinose with white spores 2013-2015

c Crustaca Effused, applanate

2016---2018 d Tuberculifor nes Small suberumpent 2019-2024

a Mesenteriformes

2010 T fimbriata Pers (from the somewhat fimbriate edges of the lobes) a b

Erect, corrugate, lobes flaccid, blackish-olive to brown-black marg undulato-fimbriate or incised

Dead branches, rare 44 in

2011 T frondosa Fr (from a functed leaf- or lamella-like appearance in the lobes frondosus, leafy) a b c,

Even, gyroso-undulate, plicate at base diaphanous, pale yellowishbuff, shaded salmon or vinous in places base brownish-vinous

Stumps, roots of living trees, oak, beach, hornbeam July-Nov 9 in

2012 T lutescens Pers (from the vellowish colour luteus vellow) ac

Tremulous soft, inclining to fluid, undulato gyrose, lobes crowded, entire, at first whitish then pale yellowish

Stumps, oak frequent Aug - Feb 14 in

b Cerebrina

2013 T mesenterica Retz (from a fancied resemblance to the mesenteric membrane) a b c

Expanded, somewhat tough, plicato undulate, gyrose changeable in form, smooth, vivid yellow to rich orange

Dead branches, sticks, rails, oak, alder, beech, fuize, broom, ivy, common Jan -Dec 31 in

2014 T intumescens Sm (from the swollen habit intumesco, to swell up) a b c

Rounded or conglomerate, somewhat tortuous and lobed, obsoletely punctate, soft, brown

Subcrespitose Fallen trunks in a wet state, beech, rare Jan 21 in Becoming a thin black membrane when ary

2015 T vesicaria Sm (from the swollen, bladder like lobes, vesica, a bladder) a b c

Erect, firm, gelatinous, gyrose, much waved and wrinkled, gelatinous within, dull biscuit

On the ground, rare Sept 4g in Often much inflated and soon falling over

c Crustaca

2016 T viscosa Berk (from the viscid substance) a c

Effused, thin, resupinate, obscurely veined, undulato-uneven, following inequalities of matrix, white, becoming hyaline or translucent yellowish-white

Dead branches, rotten wood, oak, common Jan -Dec 4 in Collapses completely in drying, leaving only a purple grey stain on the bark

2017 T epigsea B & Br (from its habitat, the earth, Gr φι, upon, ει, the earth) a b ε

Effused, thin, gelatinous, obscurely gyroso-plicate, hyaline, then white

Covering twigs, moss, beech nuts, etc., and spreading on to earth, rare Aug - Nov. 4 in

2018 T violacea Relh (from the violet colour) a

Erumpent, firm, somewhat compressed, gyrose, violaceous

Gregarious Trunks, pear rare \$ in Sometimes confounded with 2020

d Tuberculiformes

2019 T indeeorata Sommf (from its dull colour, indecorus, ugly) a Sessile, rounded, convex, plicate, moist, opaque dull livid or olivaceous, becoming dark brownish or slate-colour

Branches, birch, oak, willow, hizel, poplar, rare Oct-Nov Length of connate group 3½ in width 1½ in

2020 T moriformis Sm (from a fancied resemblance in the shape and colour to a mulberry morius, a mulberry, for ma, form) α h ε

Conlobate, sinuous, somewhat gelatinous but firm, mulberryblack Flish purple-crimson-blackish, base black

Maple, chestnut, Robinia, elm, plane, rare Iune-Feb Common size about 1 in × \(\xi\) in Sometimes confounded with 2018

2021 T tubercularia Berk (from its appearance, like a little tuber, tuberculum) a b

Erumpent, substipitate, pilcate, stem round, dull white

Barl wood, oak, on old decreed Cortemm Oct -Dec 16 in Tubercularia albata B & Br, Bitt Fl vol v p 354 "Coryne sp Berk MS on original example "Certainly not a Tremella, but the conidial form of some species, Massex, Bitt Fung, Fl vol 1 p 64

2022 T versicolor B & Br (*crstcolor*, changeable in colour) a b c Orbicular, tear-like, pallid when young, then orange, at length brownish-ochre

On 1845, ash, briar, uncom non Feb -May A in

2023 T atrovirens Sacc (from the blackish green colour ater, black, thens, green) a b c

Erumpent, disciform, very minutely papillate and rugose

Gregarious or confluent, growing through cracks in bark. Dead branches, broom. Oct. 18 to 8 in

2024 T clavata Pers (from its somewhat clavate shape) a Incrassate. fleshy-red, becoming black at base

Solitary, simple or connate Branches Average size of single growth $\frac{2}{8} \times \frac{1}{2}$ in Possibly a form of T savents With, and, if so, a condition of Ombrophila saventes Jacq, one of the Disconvectes

[T surroude: With is an early condition of Ombophila scarcoide: Jacq T foliucola Fuck is not a Tremilla it forms small gelatinous tufts or spots on the leaves of Rubus fridicesus in company with Phra, midium T brasincacola B & Br is probably a form of Hypocica right Fr, it grows on and in cabbege stumps [

CII NÆMATELIA Fr

(From the gelatinous substance which surrounds the nucleus, Gr nama, gelatine, ealeo, to roll or wrap round)

Subgelatinous, firm, convex, with a firm fleshy central solid portion called the nucleus, not shrivelling when dry Basidia subglobose, longitudinally quadripartite Speres broadly elliptical, continuous (Fig 117)

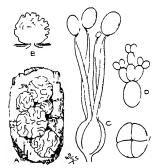


Fig. 117—A B \(^{\text{A}}\) amatcha encephala Fr entire and in section One half natural size \(^{\text{C}}\) busindism with surface view, \(^{\text{I}}\) and spores 10 spore germinating and producing sportful \(^{\text{A}}\) \(^{\text{C}}\).

Readily distinguished by the presence of the central solid nucleus, which is composed of interwoven hyphæ and covered with a thick gelatinous spore-bearing stratum Growing on wood, sometimes on moss, rarely terrestrial Species 2025—2028

2025 N encephala Fr (from the contained nucleus, Gr en, with n, kephale, the head) a b c

Somewhat sessile, pulvinate, plicato-rugose, pallid flesh-colour, salmon or salmon-whitish, nucleus hard, large, white

Solitary to connate Branches, rails, pine, lurch, frequent Sept -Mar I in Connate for 4 in

2026 N rubiforms Fr (from a fancied resemblance to a small fruit of *Rubus*, bramble) a b

Somewhat sessile, orbicular, gyroso-tuberculose, yellow

Dead branches, twigs, sometimes on moss, spreading to the ground Oct $\frac{3}{17}$ in

2027 N nucleata Fr (from the nucleus) a b c

Sessile, flattened, somewhat gyrose, whitish, then tawny yellow, nucleus white, about $\frac{1}{10}$ in in diam

Rotten wood, sticks, lime, plane, oak, rare Mar Single plants 3 in in diam Connate to 11 in Must not be confounded with 2007

2028 N virescens Corda (from the greenish colour, vireo, to be green) $a\ b$

Sessile, suborbicular, depressed, gyroso-tubercular, somewhat pale leaf green Forming green gelatinous masses

Furze, 1vy, common Oct-June Single plant 3 in Connate chains 11/2 in

CIII GYROCEPHALUS Pers

(From the globular shape, Gr guros, round, kephale, the head)

Sporophore ereat, substipitate, flattened, subspathulate, irregular, tremelloso-cartilaginous Hyminium confined to one surface

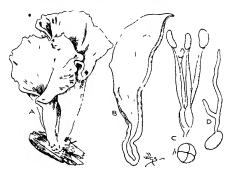


Fig. 118 - 4. B. Gyrea phalus ru us Bref. entire and in section. One-half natural size c. busidium with surface view. b and spores. D. spore germinating. \times 500

Basidia globose, soon longitudinally quadripartite Sterigmata 2-4, elongate, thick Spores ovato-pyriform, continuous (Fig. 118)

2029 G rufus Bref (from the red colour, rufus, red) a b c

Erect, cartilagineo-gelatinous, substitutate, subspathulate, sometimes stemless, variable, orange to red or dull scarlet above and orange below *Hymentum* inferior, smooth

Terrestrial, under pines, on rotten trunks, fragments of wood 34 x 3 in

SUBFAMILY III DACRYOMYCETOIDEÆ

Basidia cylindrical or clavate, divided at the apex into two long sterigmata, not septate, except in Femsjonia, where the basidia and sterigmata become septate with age

Species 2030—2041

CIV DACRYOMYCES Nees

(From the tear-like habit Gr daliu, a tear, mukes, a fungus)

Small, pulvinate, gelatinous homogeneous, somewhat plicatogyrose, everywhere covered with the hymenium Basidia terminating normal hyphæ, tereti-clavate, bifurcate at the apex when mature

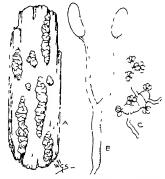


Fig. 116 -A Dairsems is a lequisions Duty. One half natural size 1 bisidium and spores is spore germinating and producing

Spores cylindric-oblong, curved, at maturity or during germination variously septrate or muriform. In the condina-bearing sporophores the condina, which more or less resemble the spores in size and form, are produced in chains. (Fig. 119.)

The species grow on dead wood Species 2030—2036 Rose-coloured 2030

Orange, yellow or yellowish 2031—2038 Pallid or fuscous 2034

2030 D macrosporus B & Br (from the long spores Gr makros, long) a b c

Gelatinous, tuberculate, minutely gyroso-granului

Branches, in cracks, on icmains of Spharia stroma. Dec - Apr. Connate chains 2 × ½ in

- 2031 D deliquescens Duby (from its appearance as if dissolving, deliquesco, to dissolve) a b c
 - Somewhat round, rooted, convex, immarginate, at length twisted, hyaline-yellowish, varying to sulphur, rarely to orange
 - Dead wood, cut wood, pine, holly, ish, oik Dec -Mar Connate chains $1\frac{1}{8} \times \frac{1}{8}$ in
- 2032 D stillatus Nees (from the drop-like habit, stillo, to drop)
 - Somewhat round, convex, at length plicate, yellow to orange or scarlet
 - Rotten wood, fir poles, cut wood, pine, fir Jan –Dec Connate chains $1\frac{4}{3} \times \frac{1}{3}$ in Distinguished from 2031 by being usually smaller in size and brighter and more persistent in colour
- 2033 D ehrysocomus Ful (from the colour as of golden hair, Gr chrusos, gold, Lome, hair) a b c
 - Spherical, orbicular, immarginate, soon collapsing, pezizoid, at length flattened, even, bright golden-yellow, varying greenishor buff-yellow or orange
 - Kotten wood, fir, rare 16 in Small in size, usually in large numbers scattered over wood or bark
- 2034 D sebaceus B & Br (from a fancied resemblance to droppings of tallow, sebum) a b c
 - Somewhat round, cup-shaped, steel-grey
 - Branches, ash, willow, per sticks | Ian April | Single plants about \frac{1}{6} in in drain | Curved chains 1\frac{1}{4} in
- 2035 D tortus Fr (from the twisted habit, torquio, to twist) a b c
 Round depressed, gyroso-tuberculate, substitute, yellow to
 orange, sometimes vermilion
 - Dead wood, notten powders bank, oak Oct -June Single plant k in Connate groups & in
- 2036 D vermiformis B & Br (from a fancied resemblance to certain small worms \(\tau\chims\), a worm, \(forma\), forma, form) a \(\epsi\)
 Minute, worm-shaped, grey
 - Kotten wood April-Sept Single plants 21 in Vermiform chains § in
- [D successives Fr, appearing as minute dots on pine leaves has been shown by Phillips and Plowright to be the conidmu stage of Hymenoscypha electrina Phill & Plowr]

CIVA FEMSJONIA Fr

(From Femsjo, the name of a place)

Cup shaped, distended with firm jelly, different on the two sides, disc thick, heterogeneous, even, not glandular Sperophores immersed,

globose Spores oblong, curved, becoming septate, at first colourless, then orange-brown (Fig. 120)

, Growing on wood, erumpent, brightly coloured

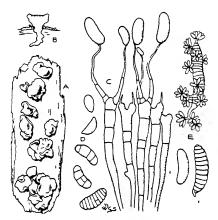


Fig 120—A B Finisponia lutioalla 1r enti e and in section One half natural size C basidia and spores p detached spires the mature spores are septate \times 500 E Guiphina Finisponiana Olsen Three spores one germinating and producing sporidiola \times 500

2086a F luteoalba Fr (from the yellow disc and white exterior, luteus, yellow, albus, white) a b

At first cup-shaped, becoming disc-shaped and plane, at length convex and folded, disc bright brassy-yellow, with a narrow white marg, under surface at first white-tomentose to brassy-white, the tomentum soon passing away, rooting crumipent

Branches, birch, oak Sept k in in diam. Looks like 2035 on a large scale. Guepinia Femisjoniana Olsen is perhaps the same as this

CV GUEPINIA Fr

(After Jean Pierre Guepin)

Unequally cup-shaped, substipitate, versiform, cartilagineo-gelatinous, the two surfaces diverse in structure Hymenum unlateral Basidia linear, deeply bifurcate Spores curved Chains of conidia produced on the tips of hyphæ springing from the surface opposed to the hymenium (Fig. 121) Species 2037, 2038

2037 G Peziza Tul (from the Peziza shape) a b Cup-shaped, cup oblique, sessile or stipitate, yellow Dead branches, wood § x j in

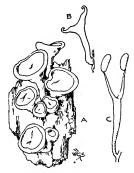


Fig 121 - A B Guepinia I cziza Tul entire and in section X 2 6 basidium and spores X 500

2038 G obliqua Mass (from the oblique habit) a Minutely hairy on reverse side of Hym Hym slightly concave, oblique, passing into a very short stem-like base, glabrous, deep bright orange when moist, tinged with pink when dry Gregarious Nov him high

CVI DITIOLA Fr

(From the down-like universal veil, Gr dittos, double, toulos, down)

Veil universal, down-like Stroma firm, more or less stem-like Hymenium discoid, gelatinous Basidia furcate Spores at first continuous then septate (Fig. 122)

Massee has removed 2040 and made it the sole type of a new genus, Dacryopsis. It is undesirable to break up such a small and natural genus as Dittola Lacryopsis is said to be distinguished from Dittola by having the hymenial surface at first covered with conidiophores and conidia as in Tubercularia, but this is hardly a distinction of generic value as conidia are present in some species of Tremella and not in others

Massee has removed 2040 and made it the sole type of a new genus, and a new possible to break up such a small and to be distinguished.

2039 D radicata Fr (from the rooting base, radix, a root) a c Stipitate, rooting, cups nearly plane, disc golden-yellow St thick, white

Wood, fir, amongst pine leaves 1 x 1 in No conidia recorded

2040 D nuda B & Br (from the absence of a veil, *nudus*, naked) a

Head subpileiform, corrugate, sometimes umbilicate, goldenyellow St somewhat thick, not rooting, cylindrical, whitetomentose Fruiting surface at first covered with conidiophores and conidia

Stumps, fir Sept & x 1 m

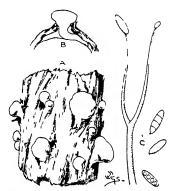


Fig 122—A * Dittol t Ut is Flow t entire and in section X c basidium and spaces X 500

2041 D Uleis Plowr (from the habitat, gerse, Uha europæus) a c Head globose, then flattened and wrinkled pale lemon vellow, slightly white-villous St firm, paler than head, sometimes absent or extending only from the wood through the bark Dead stems, very common lan ½ x ½ in No conduct recorded

[The genus Apprentum Ir is omitted A light Ir is the conductal stage of Hypocra rufa Ir A armonacum B & Br is the same condition of H gelatinesa Ir Hymenila princtifermia B & Br is an imperfect form of some fungus not belonging to the Trendlinaeca]

ORDLR II GASTEROMYCETES

FAM VII PHALLOIDACEÆ

Pilcus and stem or latticed receptacle at first enclosed in a universal volva of two membranes with a middle gelatinous stratum, volva at length opening at the apex. Gleba mucilaginous, at length elevated from the volva on a stem or lattice. Spores minute, ellipticoblong, continuous, at first immersed in olive-brown mucilage.

Species 2042-2045

459

KEY TO THE GENERA

Pileus free, reticulates	107	ITHY! HALLUS
Pileus ulnate	108	MUIINUS
Pileus divided in vertical lobes	110	LISTAUS
Acceptacle forming a hollow lattice of large meshes	109	CIAIHKUS

CVII ITHYPHALLUS Fisch

(From a functed resemblance to the *Ithuphalles*, carried at the festivals of Bacchus)

Pileus reticulate attached to the apex of a hollow, perforate spongy, stem-like receptacle. Veil forming a thin film—sometimes a feeble white membrane—over the sporiferous mucous and slightly attached to the stem. (Fig. 123)

- 2042 I impudieus Fisch (from its phallic resemblance impudieus, shameless) a b c
 - P white, at first covered with olive brown sportferous mucous Rec clongato fusitorm, spongy cellular, white Mye cord-like
 - Highly fetted. Woods thickets, gardens, generally among t rotten tree roots and stumps, by sates, in and by summer houses, sheds porches, often near to and in dwellings. May-Aug. Height to in Vai nome Sace Lorders of reticulations and pileus serrate sometimes reddish grey in colour, sail to be violet securited.

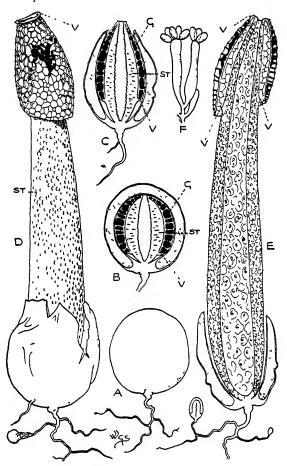


Fig 123—Ithyphalius impudium Fisch Two thirds natural size.

A young plant r section of ditto showing, yell it v c ditto showing pileus emerging from sola v feel at v b mature plant tenants of seal at v 1 section of ditto r basedium and spores X 1000 C gleba st stem or receptacle

CVIII MUTINUS Fr

(An appellation of Priapus)

Pileus adnate to the hollow, perforate or imperforate spongy stem, at first immersed in olive-brown sporiferous mucus Viil

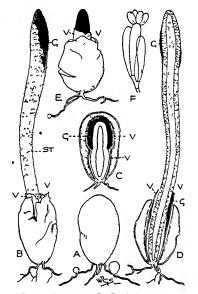


Fig 124—Vittinus animus Fr Two-thirds untural 12c A young plant B mature plant c section of voung plant D section of mature plant F pileus emerging from volva 1 b isodium and fore X 1000 G gleba striction or receptable v veil

distinct, springing from the base of the stem within the volva, white (Fig. 124)

Species 2043, 2044

2043 M eaninus Fr (cams, a dog) a b c
P short, subacute, rugulose, red Rec elongato-fusiform cellular, white or rosy When the receptack first emerges from the volva it is covered with the white vol

Woods, bushy places rotten stumps, pine, ash, decayed leaves in woods and hedges. June-Dec. Height 5\frac{1}{2} in

2044 M bambusinus Fisch (from its original place of growth, at the base of bamboos, *bambusa*) *q*

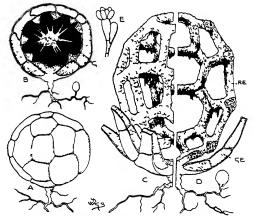
P long, acutely conical tuberculose or rugose, dull purple Recelongato-fusiform, imperforate, spongy-cellular, pallid rubiginous or rosy

Very fetid Height 51 in

CIX CLATHRUS Mich

(From the latticed receptacle clathrus, a lattice)

Receptacle hollow, globose, latticed, the meshes at first filled and covered inside by olive-brown sponferous mucus (Fig. 125)



I ig 125—Clathrus cancellatus Tournel One half natural size
A young plant is dato in section constitute plant left hilf enter in duto in section

1 basidium and spores X 750 6 Lleba GE gelatinous stratum of sola 12 receptacle

2045 C cancellatus L (from the lattice-like receptacle , cancellatus, latticed) a b c

Rec sessile, globose or ovate, the branches triangular in section with a flat face outwards, orange-vermilion outside, vermilion-crimson inside, inner sporiferous mucus dark olive, enclosing a central mass of soft dark gelatine. Vo of two white membranes, marked internally and externally with lines corresponding with the lattice within Myc cord-like.

Single or Caspitose Highly fetid Plantations, gardens, stoves Oct -Nov 4\frac{3}{2} \times 3\frac{3}{2} in The interior of the receptacle at length drips with olive brown mucus

CX LYSURUS Fr

463

(From the free tail-like lobes of the mature receptacle, Gr luo, to loosen, our a, a tail)

Stipitate, pileus divided in vertical lobes, free at the apex, distinct from the stem. Sporiferous mucus on the interior of the lobes. (Fig. 126)

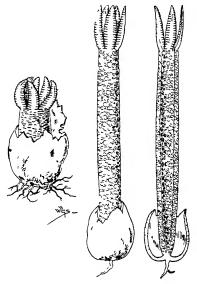


Fig. 12h - Lys irus matrili nsi. Cocke & Mas. One half natural size. Young plant on left, mature plant and section on right.

2045a L AUSTANLIFNIS Cooke & Mass (from its native country—Australia)

P for the most part 5-lobed, lobes attenuate upwards, at first connivent, then somewhat reflexed, with a longitudinal depression along the middle, transversely rugose, tawny $R\alpha$ cylindrical, hollow cellular, whitish Vo globose, lobed, white Refuse of when, probably Australan, Kalderminste, Worcester 14 Nov, 1902 Carleton Rea 64 × 4 in

FAM VIII LYCOPERDACEÆ

Peridium double, rarely single, gelatinous stratum absent Spores forming a powdery mass at maturity, mixed with a well-developed capillitium. A very feeble membrane separating the gleba from the double outer peridium, may be detected in immature examples.

Species 2046-2084

KEY TO THE GENERA

Peridium vertically compressed Stoma apical Peridium subglobosc	111	BATTARREA
Stoma apical	112	TULOSTOMA
Stoma none	113	Qt fiesia
Exoperidium splitting in a stellate manner	114	GEASTER
Exoperidium breaking up in the form of warts or spines		
Base sterile		LYCOLERDON
Exoperidium flaking off in patches Sterile base absent	116	BOVISTA

CXI BATTARREA Pers

(After Antonio Battarra)

Volva universal, central stratum gelatinous Perulium vertically compressed, pileus-like, bursting through the volva and at length raised on a tall stem (Fig. 127)

- 2046 B phalloides Pers (from a fancied resemblance to Ithjphallus, Gr eides, appearance) a b
 - Pe convex, bearing the spores and capillitium, orange-brown St hollow with a central pith of silky threads, wall of three layers, the outer broken up into coarse fibres pointing downwards, orange-brown Vo ovate formed of two white membranes with an internal gelatinous olive-yellow layer
 - In and near decayed trees, ash, on sandhills Dec 12½ × 2 in When in the young state sometimes buried several inches deep in sand or decayed wood. Sometimes 14 in high with a pileus 2½ in in diam

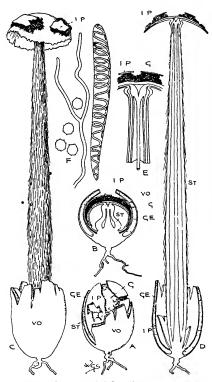


Fig 127—Battarrea phallodes Pers One half natural size

A, young plant bursting outer peridium or volva vo B section of ditto C mature plant
D section of ditto F section of upper part of stem Natural size F threads of capillitum and
spores X 75,0 C glebs with capillitum and spores C E, gelatinous stratum 11, inner
puridium ST, stem vo volva

CXII TULOSTOMA Pers

(From the structure of the mouth of the peridium, Gr tulos, cartilage, stoma, a mouth)

Peridium subglobose, dehiscing by an apical stoma, outer coat, veil or cortex, deciduous, distinct from the at length elongate stem. Threads of the capillitium swollen at the septa. (Fig. 128)

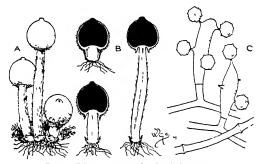


Fig. 128 — Tulostoma mammosum Fr. I wo-thirds natural size.

4, entire plant 11, sections c, basidia spores and thread of equilibrium × 1000

2047 T mammosum Fr (from the breast-like peridium, mamma, a breast) a b c

V universal, distinct at the base of Pe and at the lower part of St Pe globose, at first sessile or nearly so, stoma mammiform, entire, other St equal, squamoso-fibrillose, ragged at the base with remains of V, somewhat pale vinous-brown

Amongst moss on old walls, dry banks, sandhills, etc Oct -Feb 2½ × h in There are two forms, brown, with a stout stem, and yellowish white, with a slender stem Intermediate forms occur

CXIII QUELETIA 1 r

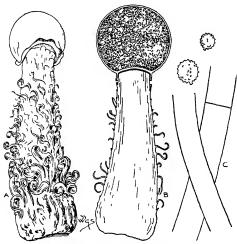
(\fter Dr I ucien Quelet)

Peridium subglobose, simple, stoma none, the wall breaking up irregularly at maturity. Sum at length long, squariose, the base of the peridium breaking at the apex and forming a collar or veil Spores borne on tetrasporous basidia. (Fig. 129)

2048 **Q** mirabilis Fr (from its unusual appearance, mirabilis, wonderful) a

Pe thin, even, glabrous, rigid, fragile, breaking away in irregular patches at maturity, whitish, then dull greyish St subclavate, fibroso-carnose, externally densely squarrose, whitish, brownish towards base

Gregarious 62 × 22 in At first wholly subterranean



1 14 129 - Oucletia miralilis Fr One half natural size section threads of capillitium and spores

CXIV GEASTER Mich

(From the star-like appearance of mature plants G1 g2, the carth, aster, a star)

Peridium at first continuous, consisting of three layers, the two outermost-exoperidium-splitting from the apex 11 a stellate manner, the inner layer-endoperidium-sessile or pedicellate, furnished at the apex with one orifice, rarely more Columella promment, rudimentary or obsolete Capillitium dense Terrestrial (Fig 130) Species 2049—2062 2049

a Myriostomatæ Endoperidium with many orifices

b Menostomata Endoperidium with a single orifice

Endoperidium pedicellate 2050 - 2054Endoperedium sessile 2055-2062

2 H 2

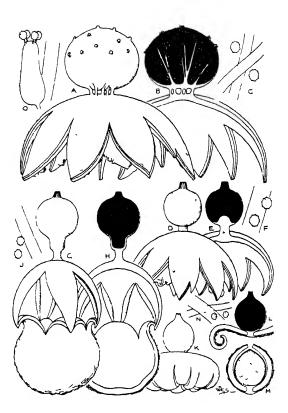


Fig. 130—A, B, Geaster coliformis Pers. entire and in section. One half natural size c threads of cipilinium and sports. X 750—D + C Berkeleys Mass. entire and in section. One half natural size between the section of half natural size between the section of half natural size between the section of the constraint of the section of the constraint of the section. We will be section of the sectio

a Myriostomatæ

2049 G coliformis Pers (from a fancied resemblance in the endoperidium to a colander, *colum*) a b c

Ex 7 to 10 segmented, unequal, pale umber End subglobose, scabrous, supported on numerous pedicels, pale slate Col usually obsolete or occurring as continuations of the pedicels Gl umber

Sandy banks Oct Diam of expanded Ex 53 in

b Monostomata

2050 G Bryantu Berk (after Charles Bryant) a b c

La 8- to 12-segmented, becoming involute, pale umber to warm brown End subglobose or obpyriform, with a distinct groove between End and Ped, dark purple-slate to warm umber, more or less whitish-farinose Per elongate, conical, sulcate Col hemisphenical Gl dark brown

Amongst leaves, under hedges, sandy places, on wood, dry marly bunks, on the ground July-Feb Drum of expanded Lx 33 in Var minor Mass, under one inch when expanded

2051 G Schmidelif Vitt (after Casimir Schmidel) a c

Ex 5- to 8 segmented, revolute, white to ivorv End subglobose, lead colour to pale salmon Per prominent, plicate, apex fimbriate, whitish Col large

On the ground in open places Diam of expanded Ex 2 in

205ia G umbilicatus Fr , var Smithii W G Sm , G Smithii C G Lloyd (after Worthington George Smith) a

Ex 7- to 8-segmented, unequal, sublanceolate, pale umber-ochre, shaded darker, limbs slightly vinous-sienna, externally pale umber. End sessile globose, or depressed-globose colour as Fx with a tinge of olive. Per conical pheato-striate in a circular depressed marginate umbilicus. G/ deep vinous-umber. Nov. Dram of expanded Fx 1, in. Per not like 2061, but more like 2058 or 2057.

2052 G Berkeleyi Mass (after the Rev. M. J. Berkeley) a

Ev 7- to 9-segmented, unequal, vinous-brown when dri, externally buff and umber End broadly ovite, shortly and stoutly pedicellate, corrsely farinose, pale brown Prr prominent, conical, covisely sukate inside and out, surrounded by a smooth slightly depressed silky zone Cod short, hemspherical GI umber

On the ground, amongst fir leaves Oct Diam of expanded Ex 3\frac{1}{2} in According to Mayee this species was confused by Berkeley with 2051 and 2055—see the dried examples in the Kew herbarium

2053 G limbatus Fr (from the fringed or silky, fimbriato-ciliate peristome, *limbatus*, bordered, as with another coloui) a b c

Ex multifid, unequal, vinous, scurfy and umber beneath End subpyriform to subglobose, shortly pedicellate, blackish-brown

- to deep vinous-umber *Po* slightly depressed, subacute, fimbriato-ciliate, surrounded by a small pale silky disc *Col* almost obsolete *Gl* dark umber
- Woods, hedgebanks, amongst firs, leaves Sept -Nov Diam of expanded Ex 4 in
- 2054 G fornicatus Fr (from the arched inner layer of the exoperidium, fornicatus, arched over) a b c
 - Ex 4- (rarely 5-) segmented, the two layers separating, outer cuplike, scurfy and brown externally, tan within, inner arched and attached to outer by tips of segments, umber, blackish-umber or rufous, tan within End obpyriform, shortly pedicellate, dark brown Per conical, ciliato-striate Col slender, somewhat clavate.
 - Meadows, passures, heaths, amongst firs Mar -Nov Dram of expanded Ex 2½ in 5½ in high
- **2055 G striatus** DC (from the sulcato-striate peristome) a b c
 - Ext 6- to 9-segmented, conaceous, thin, tan, darker externally End subsessile, globose, often scabrous, umber-white to lead-colour. Per prominent, conical sulcato-striate. G/ brown
 - On the ground, sandhills amongst dead leaves, amongst trees, his Mar-Nov Diam of expanded 1 x 2 in
- 2056 G Michelianus W G Sm (after Piero Antonio Micheli) a h c Ex 4-to 6-segmented, unequal, thick, warm or pale vipous, outside much cracked, brown End subglobose, tin-uniber Per mammiform surrounded by a silky zone Cel clavate Gl brown
 - On the ground, amongst rhododendrons. Oct. Dram of expande il x 5 in Differs from 2061a, for which it has sometimes been mistaken. At maturity this plant will sometimes throw it elf clastically some 9 inches from its place of growth
- 2057 G lagenæformis Vitt (from a fancied resemblance to a narrow-mouthed bottle or jai, lasena, a flask forma, shape)
 - Ex 7- to 9-segmented, attenuate, subequal, salmon-white to ivory, pale rose or vinous End subglobose or ovate, pale buth, umberwhite or faintly vinous Per broadly-conical, sides incurved, silky, striate, surrounded by a disc Col clavate Gl brown, somewhat olive
 - On the ground April-Nov Diam of expanded Ex 21 in
- 2058 G saceatus Fr (from the sac or pouch-like shape when young, saccus, a bag) a b c
 - Ex 7- to 9-segmented, pale dove-colour, very pale yellowishlavender or pale buff, externally umber and othre End globose, colour as Ex Per broadly-conical, sides incurved, stoma fimbriate, silky, surrounded by a silky disc G/ dark brown
 - On the ground, amongst stones and earth, in hedges, sometimes on sticks with profuse Myc Aug Diam of expanded Ex 3½ in

- 2059 G mammosus Chev (from the breast-like endoperidium, mammosus, full-breasted) a b c
 - Ex 7- to 10 segmented, hygrometric, strongly incurved when dr, vinous-brown to umber, ochreous or glossy yellow-white-umber outside End globose, white-brown Per broadly and acutely conical, fimbriato-ciliate to striate, surrounded by a pale silky disc GI vinous or dark brown
 - On the ground Feb -Dec Diam of expanded Ex 15 in
- 2060 G rufescens Pers (from the at length rufescent colour) a b c Ex 6- to 9-segmented, thick, becoming deeply cracked, brownish flesh-colour or red-salmon, clouded rufescent, externally dark sienna or sienna-buff End globose, pale to dark umber, stoma slightly mammiform, dentate Col obsolete or short Gl dark brown
 - Woods, pastures Sept-Dec Diam of expanded Lx 4½ in Var minor Pers, 5-8 segmented, less than half the size of type
- 2061 G fimbriatus Fr (from the fimbriate mouth of the peristome) a b c
 - Fx 5- to 15-segmented, flucud, somewhat thick, buff- or umberwhite with white cracks End subglobose, pale umber, stoma indeterminate, piloso-fimbriate Col obsolete Gl brown
 - Woods, pine, on the ground amongst leaves Aug-Dec Diam of expended Lx 2g in
- 2061a G triplex Jungh (from the superficial appearance, as of three perioda) a
 - Ex 5 to 6-segmented, the fleshy inner layer often becoming detached and forming a spurious peridium at the base of the Lnd, vinous-brown End globose, with a definite even stoma, yellow-brown Col prominent, persistent
 - Woods, fields Diam of expanded Fx 4½ in When young this plant is paule like with an acute upen as in 2058 and creatly differs in this respect from 2056, where also the colours of the peridia are the reverse of 2061a
- 2062 G hygrometricus Pers (from its absorption of moisture from the air Gr hugros, moisture, metron, a measure) a b c
 - Ex 7- to 20-segmented, harsh and horny, amous-brown, yellowish-brown outside, rigidly inflexed when dry, and often cracked all over End ovato-globose in section, floccose, crimson-brown or purple-layender, stoma irregularly torn Col obsolete GI crimson-brown
 - On the ground Woods, pine Feb -Dec Diam of expanded Ix 21 in

CXV LYCOPERDON L

(From an old behef that puff-balls grew from the dung of the wolf, Gr lukos, a wolf, perdon, dung)

Peridium double, external layer or cortex becoming broken up into spine-like tufts or warts, inner layer smooth dehiscing by a small

apical stoma, the whole of the upper portion being sometimes evanescent. Sterile base usually stem-like (Fig. 131)

The species are remarkable for their variability in size, very small mature examples of all the species being frequent 1 hey are popularly named "Puff-balls" and "Devil's snuff-boxes"

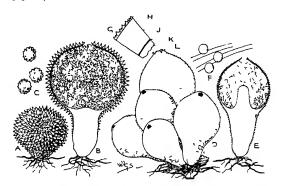


Fig. 131—A B Lycoperdon echinatum Pers. young plant entire and matter plant to vection. One half natural size c spores × 750 D.F. L. pyriform. Schaff entire and in section. One half natural size is spores and threads of capillinum × 750 c. ection thin tigh of tex of L germatum batsch × 5 H outer scurfy cost J, inner cost s, thin membring over gleba L, gleba.

Some of the species are dangerous if eaten in a raw state—rapid inflammation of the throat and a greatly swollen tongue have been known to ensue—This is probably also true of species of Boxista

 Species 2063—2077

 Spores rough
 2063—2068

 Spores smooth
 2069—2077

2068 L eehinatum Pers (from the hedgehog-like spines of the peridium echinus, a hedgehog) a b c

Pe globose, usually passing into a stout stem, sometimes stemless, at first covered with large pyramidal floccose spines, vinous-brown varying buff, stoma small, irregularly torn, base usually clad with white thread-like Myc 5t spongy-cellular within Cop and Spores deep vinous-brown

Usually solitary Amongst trees, beach Mar -Oct Diam 2½ in Sometimes made a var of 2068

2064 L. Hoylei B & Br (after Mr Hoyle, who first brought the plant to the notice of the Rev M J Berkeley) a b c

Pe subglobose, passing into a short stem, at first covered with pyramidal floccose spines, purple-brown, stoma small, irregularly

torn, base usually clad with white thread-like Myc St lacunose, spongy-cellular and olivaceous within Cap and Spores light in colour, pale purplish-brown, but described by Berkeley as lilac

Woods, amongst leaves Oct -Dec Diam 11 in Perhaps a form of 2068

- 2064a L velatum Vitt (from the external layer of the peridium forming a universal veil, velum, a covering) a b
 - P_ℓ pyriform or subglobose, slightly umbonate, outer layer tomentose, breaking up into evaniscent star-shaped rosettes and forming a false ring-like appearance at the apex of the stem, at length almost completely disappearing, snow-white, inner layer furfuraccous and furnished with very thin short spines, white then delicate flesh-colour, finally greyish S_ℓ with white cord-like Myc, white Cap and Spores white, then fulvous, finally ashy

Amongst leaves Oct $2\frac{1}{2} \times 1\frac{1}{5}$ in

- **2065** L atropurpureum Vitt (from the blackish-purple capillitium and spores, *atcr*, black) *a b c*
 - Pe subglobose or pyriform, at first covered with slender spines, warm yellowish-brown or rufous, stoma small, irregular St plicate below, spongs cellular and pale dull purple within Cap and Speres dull- to blackish-purple

Downs, woods, under oaks Sep - Nov Drum 13 in

- 2066 L excipuliforme Pers (from a funcied resemblance to a basin, excipula) a b c
 - Pe subglobose, usually passing into a long, stout stem, rarely almost stemless, at first covered with slender spinose warts, white to ivory. St even, somewhat plicate below, sometimes lacunose, spongy-cellular and pale olive within Cap and Sybers dull olive or yellowish-brown.
 - Pistures, woods under firs May-Nov Diam 31 in Sometimes 72 in high Sometimes confused with or made a vir of 2068, 2070 or 2071, the two latter have smooth spores
- 2067 L saccatum Fr (from a fancied resemblance to an inverted sac or bag, saccus) a b c
 - Pe subglobose, passing into a long stout stem, plicate below, at first covered with spinulose warts, brownish-ivory, stoma small, irregular St often more or less lacunose, spongy-cellular and yellowish-olive within, brownish below Cap and Spores yellowish-brown
 - Often in rings of very large size, individuals a foot apart. Open places, near pines, in and near thickets. Vug -Oet. Diam. 4 in. Often 8 in or more high.
- 2068 L gemmatum Batsch (from the peridium covered with pointed warts, gemma, a young bud) a b c
 - Pe subglobose, usually passing into a stem, rurely stemless, at first covered with small pointed spines, pale brown St

- tapering downwards, coarsely spongy cellular and faintly olive within Cap and Sporcs olivaceous- to dark-umber
- Woods, shady places, pastures, from the decayed interior of an acorn Sept -Nov 2½ × 3½ in Sometimes confused with 2071, of which 2068 has been considered a variety but in 2071 the spores are smooth, while in this they are minutely warted or spiny
- 2069 L laeunosum Bull (from the pits or depressions on the stem, lacuna, a hole or cavity) a
 - Pe subglobose, passing into a long stout stem, covered with small pointed spines, pale buff St tapering downwards covered with small lacunæ Cap and Speris olive-brown

Woods Autumn 13 × 41 in

- 2070 L pyriforme Schæff (from its pear-like shape, fyrus, a pear, forma, shape) a b c Subumbonate
 Pe thin, flaccid, at first covered with minute pointed warts,
 - Pe thin, flaccid, at first covered with minute pointed warts, brown, stoma small, torn, base sometimes forming a Col, slightly cellular Cap and Speces olive
 - Commonly exceptose, often held together by coarse strands of white Myc On the ground in fields and woods, on rotten stumps and branches, pollards, oak July-Nov 1, x 2 in Col not a permanent character
- 2071 L perlatum Pers (from the great width of the peridium in comparison with the slender stem perlatus very wide) a b c
 - Pe subglobose or flattened, often passing into a somewhat slender stem umborate, often plicate below, at first covered with stout obtuse short spines base sometimes forming a Col, pale brownish-salmon, stoma small of slightly spongscellular and in section convex above. Cap and Spores olivaceous
 - Woods, thickets, amongst trees, firs Sept-Nov 2½×5 in Col not a permanent character Sometimes made a vir of 2088 or 2088 is sometimes made a var of this, but the spores are different
- 2072 L. molle Pers (from its softness or soft scurfy surface, mollis, soft)
 - Turbinate, base broad, abrupt Pe paperaccous at first furfura ceous, collapsing, umber to olive, stoma small, irregular Cap collapsing, ochreous-olive Sterile base well developed, slightly spongy-cellular
 - On the ground, woods, oak $1\frac{r}{8} \times 2\frac{1}{4}$ in Differing from 2068 in the smooth spores
- 2072a L eruelatum Rost (from the somewhat cross-shaped spines of the cortex) a
 - Pe subglobose to broadly pyriform, narrowed below into a short stout sterile stem-like base, 14-13 in high by 3-13 in broad Cor whitish, formed of groups of minute, more or less pyramidal spines, breaking away in large flakes and exposing the inner yellowish brown minutely granulated peridium, dehiscence by a small irregularly torn apical stoma. Gl umber Spores globose, smooth, almost hyaline, 5-6 \(\mu \) in diam,

threads of capillitum mostly unbranched, slender, $4-5~\mu$ thick, ends tapering, very slightly coloured yellow-brown. The lacunose sterile base not projecting into the Gl as a Col

On the ground among hazel bushes $1\frac{3}{4} \times 1\frac{1}{4}$ in Whitish outer wall of peridum peeling off in large flakes as in species of Booista, exposing the brown, minutely granulated inner Pe

2078 L hiemale Bull (from its time of growth, winter, hiems) a b c Pyriform, rarely almost sessile and globoso-depressed. Pe membranous, flaccid, white their grey, yellowish or rufescent, stoma irregularly lacerate. Cap and Sporis smoky-yellow to olivebrownish. Sterile base well developed, at first verrucosoaculcate, elastic-tough with a thick bark.

Fields, downs, amongst dend leaves Sept -Jan 22 x 38 in

2074 L emalatum Bull (from the large conical warts of the peridium as if embossed or carved in bas-rehef, calum, a sculptor's chisel) a b c

It first subglobose or pyriform, then depressed, flaccid and ruptured above, contracted below into a short stout tapering stem and more or less covered with large conical warts, whitish or ivory *Cap* and *Spores* ochreous-olive or opaque yellow-green Sterile base spongy-cellular

Odour disagreeable, musty, mouse like Fields, woods, grassy roadsides Max-Oct $-7\frac{1}{2}\times6\frac{1}{2}$ in

2074a L depressum Bonard (from the depressed peridium) a

Pt obconical, at first rounded above then flattened, base somewhat plicate, yellowish-white, then grevish-vellow, finally brownish, covered with spinulose warts. Stoma at first well defined, greatly extending with age. Sterile base well developed, separated from the olive (1) by a diaphragm.

Commons, woods Aug -Oct 11 x 11 in

2075 L Bovista L (from the resemblance to Bovista) a b c

(slobose, sessile, usually plicate at base, at first subtomentose then smooth and glossy, white, stoma large, irregular Cap and Speces dull olive or olive-umber

Sometimes grows in rings 30-50 ft in tham perfectly white within Rich pastures, orchards, gardens, roadsides grassy places. Aug -Oct 12 × 11 in Popular names "Puff ball" and 'Devil's suiti box " Modern Greek name "kianion," like a skull. A drawing in British Museum shows a tham of 18 in A weight has been recorded of 20 lbs. An American example has been described with a larger tham of 5 ft. 4 in and a lesser of 4 it 6 in, height 9½ in

2076 L furfuraceum Schæff (from the branny or scurfy peridium, furfur, bran) a b c

Pt. subglobose, passing into a short, stout stem, flaccid above, floccose, white then pale olive-yellowish, base white Cap and Spores olivaceous Sterile base spongy-cellular, white

Fields, fallow ground, old walls, about stumps Sept 12 × 18 in

2077. L. Cookei Mass (after Dr M C Cooke) a c

Subglobose or flattened below and hemispherical, abruptly contracted into a short stem, minutely furfuraceous, smoky-brown, umber-salmon or umber with a faintly purplish shade St pale spongy cellular within Cap and Spores yellow- to olive-umber Gregarious Sept 12 × 1 in Like a small form of 2071

CXVI BOVISTA Pers

(From the German popular name, botist, a fairy ball)

Peridium double, external layer or cortex smooth, fragile, deciduous, not remaining as adnate warts, except in 2081 and 2083

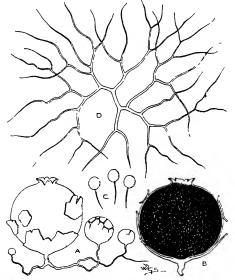


Fig 132 —A, B, Bouista nigrescens Pers entire and in section C, spores × 750 D thread of capillitum One half natural size

usually falling away in flakes, inner layer smooth, dehiscing by a definite or irregularly torn apical stoma. Sterile base absent Spores globose or elliptical (Fig. 132) Species 2078-2084 Spores globose 2078 - 2083

Spores elliptical 2084

- **2078** B plumbea Pers (from the lead-coloured inner layer of the peridium, *plumbeus*, leaden) a b c
 - Globose Cor thin, whitish, persistent towards base, inner layer tough, thin, dehiscing by a small irregular somewhat prominent stoma, lead-colour, slate-whitish or purplish-slate Cap and Sports brown
 - Div grassy and heathy places, downs, rarely on stumps July-Nov $_{1_8}\times _{1_8}$ in
- 2079 B nigrescens Pers (from the at length black or blackish colour of the inner layer of the peridium, nigrescens, turning black) a b c
 - Subglobose Cor papery, whitish, inner layer thin, tough, deliscing by an irregular somewhat prominent stoma, blackish, brown-, slate-, olive-brown or blue-black Cap and Spores olive-brown then purplish-brown
 - Dry pastures, heathy places Jan -Dec 21 x 21 in
- 2080 B olivacea Cooke & Mass (f om the at length olive-coloured capillitium and spores) a c
 - Globose Cor thin, fugacious, whitish or ochreous, inner layer thick, soft, becoming brittle and breaking away in patches above, white or ochreous Cop and Spores citrine then olive. On the ground Sopt 2×2 in
- 2081 B ammophila Lev (from the habitat, sandy places, Gr ammos, sand, philo, to love) a
 - Broadly obovate, plicate below and tapering into a long stout root-like growth Cor broken up into tomentose warts, whitish, inner layer thin, dehiseing by a small irregularly torn stoma, pallid Cap and Spores olive
 - Sindy places Sept 13 x 14 in without root
- 2082 B cepæformis Mass (from the shape, like a flat onion, αpa , an onion, forma, shape) a
 - Subglobose, flattish, somewhat plicate below Cov minutely furfuraceous, whitish to very pale buff, inner layer dehiscing by a small torn stoma, whitish or pale buff Cap and Speces extrine M3c rooting, cord-like
 - ()n the ground Ig × 11 in
- 2083 B pusilla Pers (from the very small size, fusillus, small) a b Subglobose Cor breaking up into minute sourly squamules, pale yellowish-brown, inner layer flaced, dehiseing by a small stoma, pale yellowish brown or olivaceous ochre Myc cordlike, rooting
 - Pistures, hedgebanks 4 x s in
- 2084 B ovalispora Cooke & Mass (from the oval spores) a b Subglobose Cor very thm, subpersistent towards base, whitish or ochreous, inner layer thm, flaccid, smooth, dull lead-colour, dehiscing by an irregular stoma Cap and Spores brown
 - On the ground Diam 2 in Formerly included with 2078 and 2079, but differing in the oval spores and thinner cortex

FAM IX SCLERODERMACE A

Pendium thick with a well-defined base, sometimes forming a stem, opening at the apex in an irregular manner, feebly developed with a sterile base Capillitium absent or scanty Species 2085—2089

KEY TO THE GENERA

Gleba composed of numerous distinct cells containing peridiola

Gleba cellular, cells without peridiola

117 POLYSACCI M

118 SCLIRODERMA

CXVII POLYSACCUM DC

(From the many small cells within the peridium, Gr polus, many, saccos, a bag)

Peridium irregularly globose, corky, attenuate downwards into a more or less elongated stem-like base, dehiscing by an irregular

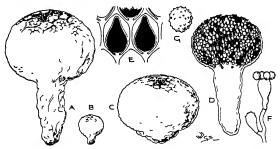


Fig 133 — A, B C D Polysaccum pisocarpium Fr entire and in section ()ne half natural size E, section through part of gleba showing civities and enclosed periodal X S E, bisidia and spores X 250 G, spore X 750

rupture of the apex Gleba consisting of numerous cells, each containing a pendiolum Peridiola at first success or irregularly ovoid, sometimes filling the cell and becoming irregularly polygonal (Fig. 133)

2085 P pisocarpium Fr (from the pea-like peridiola, pisum, a pea, carpellum, a fruit) a b

Pe irregularly globose or ovate, smooth, subtuberculose, corky, attenuate downwards into a more or less stem-like base, or

sessile or nearly so, pale to olive-umber, base spongy-cellular within Gl composed of numerous cells, each containing an olive-umber Peri Spores dark brown

On the ground May 28 x 3k m

CXVIII SCLERODERMA Pers

(From the hard skin or peridium, Gr skleros, hard, derma, skin)

Peridium firm, cortex persistent in the form of warts, scales or granules, indehiscent or breaking up in an irregular or more or less

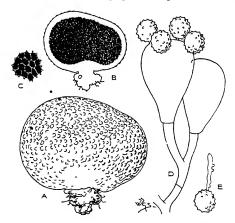


Fig. 134—A 1 Schroderma nulgir Hornem entire and in section. One half natural size colls of gleba. X., D, bisidia and spores. E spore germinating. X.750

stell-te manner, convex internally at base Gliba cellular, subpersistent, without peridiola Trama in the cell walls (Fig. 134)

The peridium is frequently and extensively perforated by larvæ which eat the spore-mass and help to disseminate the spores

Species 2086—2089 2086 S vulgare Hornem (from its commonness vulgaris,

common) a b c

Subsessile, often lobed below and usually slightly depressed above, ovate, reinform in vertical section Pc thick, corky, verticose or adpressed-scaly, pale warm-brown, scales darker Gl dark slate-colour Trama white

Often exspitose Under the name of "vegetable tripe" it has been eaten when unter young and found not poisonous. Used for the adulteration of pâte de

Scleroderma

fore gras, sausage and poulard truffe in place of the French truffle, Tuber macrosporum Odour rank, strong, disagreeable, subpinerous alluacous Open places near trees Aug-Nov Diam 3\frac{3}{2}\text{ in Often closely resembles horse droppings Sometimes attacked by 1481, which in turn is not infrequently attacked by Hypromyos luttoriums. Pigs in search for truffles and pig nuts will not eat Sclerodenia: Sometimes 5\frac{3}{2}\text{ inches in duam } \text{ var crpa W (s. Sm., Sclerodenia: Cometimes Fig. inches in duam } \text{ var crennum (Bolt Hist Fun, t. 116)} \text{ var au antia.um } \text{ W G Sm., Scleroderma spadiceum Pers Date brown \text{ ar crennum W G Sm., Scleroderma spadiceum Pers Usual\text{ liss than an inch in duam, hard and granular all over, resembling \$Llayhomy.oc. granulatus, of which species it is sometimes, without examination, placed in herbaria as a var I riw woods Probably a distinct species.

2087 S verrucosum Pers (from the warted peridium, terrucosus, full of warts) a b c

Subsessile to stipitate P_t subglobose, thin, frigile and breaking up irregularly above, externally finely squarrose or minutely warted, when stipitate continued into a more or less elongate and sometimes lacunose stem, otherous or dull brownish G_t at first umber, then slate-colour to blackish T_{tama} whitish Often furnished with a mass of Myc at base

Sandy ground, commons, open places, near busics. Tuly-Noy 3½ × 5 in Sometimes attacked by 1481

2088 S Bovista Fr (from its resemblance to a Bovista) a b c Subsessile, globose Pe thin, pliant breaking up irregularly above, becoming nearly smooth, vellowish Gl yellowish- or olive- to purplish-brown Trama yellow Usually furnished with a mass of Mye at base

Sands ground near bushes Sept Diam 21 in

2089 S Geaster Fr (from a fancied resemblance to a Geaster) a v c Sessile globose. Pt thick, almost smooth, splitting and expanding in an irregularly stellate manner, dull yellowish-brown G/ umber to pale and then dark slate. Trama whitish Sometimes with a mass of Myc at base.

Sandy places, stubble fields, woods, under oaks Aug -Oct Diam 3 in

FAM X NIDULARIACEÆ

Spores produced in the interior of one or more indehiscent globose or compressed peridiola or sporangia which are at first contained within a peridium

Species 2090—2088

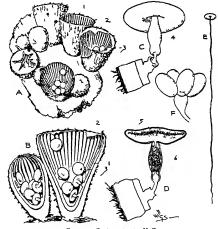
KEY TO THE GENERA

Peridiola several		
Peridiola attached by a funiculus or cord to the wall of		
the peridium		
Peridium of three layers, cup shaped	119	CYATHUS
Peridium of two layers, outer thick and felt like, inner	-	
thin, cup shaped	120	CRUCIBULUM
Pendiola not attached by a funiculus to the wall of the		
peridium Peridium of a single membrane,		
globose	121	NIDULARIA
Peridiolum solitary, ejected from the peridium Peridium		
globose, subglobose or urceolate, sessile	122	SPHÆROBOLUS

CXIX CYATHUS Haller

(From the cup-shape, Gr kuathos, a wine cup)

Peridium cup-shaped, composed of three distinct, closely connected layers, apex at first closed with a white membrane or epiphragm,



A, group of plants attural size 1 section of young and mature plants X, C period and drawn out of the function X 10 E periodolum with the fulform appendage 6 of fig. D; uncooled and drawn out of the function X 3 I basical and spores X 50 i periodium emphragm 3 periodia 4 functions 5 hymenial 1 yer, Immg periodolum 6 fulform appendage coiled within the functions

becoming broadly open Perduola compressed, umbilicate, attached to inner wall of peridium by an elastic cord or funiculus (Fig. 135)

The British species grow in fields and gardens, generally on chips, twigs and rotten wood, some foreign species grow on dung of horse and cow, and on bagging, matting, coffee-chaff, etc Species 2090, 2091 2090. C striatus Hoffin (from the striate inner surface of the pendium) a b c

Obconical, truncate at base and apex, striate and shining lead-colour within, hirto-tomentose and ferruginous without *Peri* subcircular, biconvev, lead-colour *Fiun* whitish, containing a long filiform appendage within Springing from coarse brown Myc

Fasciculate Fields, woods, gardens, decaying twigs, wood, old willow, fir cones, coco nut fibre Feb -Nov \$\frac{3}{2} \times \frac{6}{3} \text{ in}

2091 C vernicosus DC (from the silky-shining outer surface of the peridium, *vernicosus*, shiny as though varnished) *a b c*

Campanulate, undulate, tapering downwards to a narrow base, inside smooth, lead-colour or brownish, outside minutely silky, ferruginous, ochreous or greyish *Peri* circular, biconvex, blackish or blackish-brown *Fini* white

On the ground, stubble fields, gardens, flower pots, flower boxes, rotten wood, chips Feb -Sept $\frac{1}{4} \times \frac{1}{4}$ in

CXX CRUCIBULUM Iul

(From a fancied resemblance to a small inelting-pot, crucibulum)

Peridium cup-shaped, consisting of two layers, the outer thick and felt-like, the inner a thin membrane which is at first continuous over

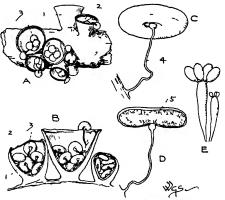


Fig 136 — A, Cruribulum vulgare Tul \times 1 B section showing young and mature examples \times 3 C perdiolum D section of ditto \times 12 E basida and spores \times 660 1, perdium 2, epphragm 3, perdiola 4, functulus 5, hymenal layer lamp perdiolum

the apex as a flat epiphragm *Perduola* numerous, attached to the inner wall of the perduum by a long cord which originates from a depression in a central nipple-like tubercle on the under side of the perduolum (Fig 136)

2092 C vulgare Tul (from its commonness, vulgaris, common) a b c Pe thick, sienna-white, cinnamon or greyish, externally minutely tomentose, internally smooth and shining Peri circular, biconvex, pale ochreous or sienna-white

Rotten branches, planks, twigs, chips, cones, herbaceous stems, grass, rotten straw, dead fern fronds Oct -Nov 3×1 in

CXXI NIDULARIA Bull

(From a fancied resemblance to a nest, mdus)

Peridium globose, consisting of a single membrane, at first closed then opening by a more or less regular mouth or becoming irregularly

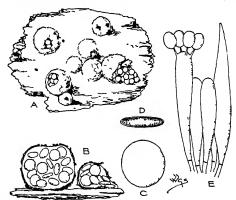


Fig. 137 — A Nidularia pisiformis Tul. \times 1 B sections showing peridiola embedded in mucus \times 3 C b, peridiolum and section \times 12 E, basidium with spores cystidium and the smaller cells of hymenial surface \times 660

ruptured, containing numerous peridiola enveloped in mucus, not attached to inside by a funiculus. The mucus arises from disintegration of hyphæ (Fig 137)

Species 2093—2095

2098 N pisiformis Tul (from the pea-like shape, pisum, a pea, forma, shape) a b c

Pe turbinate, strigose, tuberculose, splitting irregularly, cinnamon, pale buff or salmon Peri subrotund, biconvex, smooth, shining, brown

Gregarious or solitary Dead branches, chips, leaves, pine, sometimes on the

ground, woods May-Oct $\frac{\pi}{18}$ in Spores 7-8 x 8-9 μ Var Broomes Mass, on pine wood Spores 10 x 4-5 μ

2094. N Berkeleyi Mass (after the Rev M J Berkeley) a

Pe subglobose, thick, hirto-tomentose, bright cunnamon Peri orbicular, biconvex, smooth, shining, bright brown

Solitary or 2-3 together Twigs, woods 15 in

2095 N confluens Fr (from the confluent habit) a b c

Pe subglobose, thin, villous, whitish or buff-white Pert orbicular, compressed, pale yellowish-umber to chestnut

Putrid leaves, twigs, chips, wood, rarely on the ground Oct

CXXII SPHÆROBOLUS Tode

(In reference to the ejection of the peridiolum from the peridium, Gr sphaira, a ball, ballo, to throw)

Peridium globose, subglobose or urceolate, sessile, peridicium solitary, ejected from the peridium (Fig. 138) Species 2097, 2098

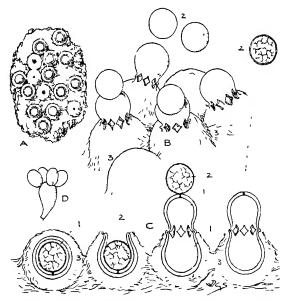


Fig 138—A Spharobolus stellatus Tode X 3 B, group of ditto c sections of young and mature examples X 12 p, basidium and spores X 660 s, peridium of two coats 2 peridola 1, mycelium

Periduum globose, of two layers, the inner at length extruded elastically and ejecting a single peridiolum 2096, 2097

Peridium homogeneous, sessile on a broad base, subrotund then urceolato-ventricose, peridiolum extruded from the apex of the peridium 2098

2096 S stellatus Tode (from the stellate mouth of the peridium) $a \ b \ c$

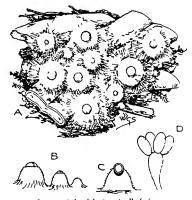
Pe minutely tomentose, at first immersed in a thick web of white Myc, opening above in a 5- to 7-stellate manner, elastically extruding the inner layer and ejecting a globular yellowish or orange peri, pale yellow or pale yellowish-buff, darker or orange within. The peri which encloses basidia and spores is ejected for 8 or more inches with a slight clicking sound.

Usually crowded in trooptwigs, leaves, rotten grass Often in stoves and greenhouses Jan –Dec Diam $\frac{1}{h}$ in

2097 S dentatus W G Sm (from the toothed peridium, dentatus, toothed) a

Pe finely pilose with creet hairs, springing from scanty brownish Myc, opening above in a 4- to 7-stellate manner, the rays clad with long white hairs, which at first converge over the opening, outside pale livid-buff to vinous-biownish, pale brown or brown, inside white, ivory, white-greyish or faint olive-ivory, ejecting a reddish-biown peri

Scattered Dead elder Failand, Bristol, Aug 1888, K Baker Diam 18 in



A, seen from above v, seen from side c, section X 12 D basidium and spores X 660

2098. S terrestris W G Sm, Thelebolus terrestris A & S-not of Tode-(from the frequent habitat, the earth, terrestris, pertaining to the earth) a b c

Pe at first hemispherical, saffron-yellow honey-colour or sienna, seated on a dense tomentose Sub of buff-white here and there brownish Myc Pen spherical, colour as Pe

Crowded in troops Earth, leaves, pine, moss, rotten wood, oak Mar -Nov Diam i in

FAM XI HYMENOGASTRACEÆ				
Subterranean Peridium indehiscent Spores 2–7	Capillitium absent Species 2099—2122			
KEY TO THE GENERA				
Spores globose warted Sterile base of peridium well developed Sterile base of peridium absent Spores smooth	123 125	OCTAVIANIA Hydnangium		
Sterile base of peridium absent Spores elliptical Gleba cartilagineo glutinous Spores minute,		MELANOGASTER		
elliptical	126	HYSTERANGIUM		
Peridium with root like fibres on the surface	127	KHIZOPOGON		
Spores large, elliptical or fusiform, rugulose or nodulose Sterile base of pendium well developed	128	HYMENOGASTER		

CXXIII OCTAVIANIA Vitt

(After Dr Vincent Ottaviani)

Peridium continuous or cracked, cottony, running down into a well developed sterile base Trama byssoid, easily divisible, cells at first empty, peripheral cells small, spherical, central cells much larger and irregular Spores 2-7, globose, warted (Fig. 140)

Distinguished from Hydnangium by the presence of a sterile basal stratum and from Melanogaster in the cavities of the gleba being at first empty and the trama byssoid Species 2099-2101

2099 0 asterosperma Vitt (from the star-shaped spores, Gr aster, a star, sperma, a seed) a b c

Globose, regular or irregular Pe continuous or cracked into areolæ, minutely downy, at first whitish-buff, then rosy-salmon, clouded umber Gl salmon, slightly buff, cells umber

Generally near the surface, often partially exposed Odour sweet, of Ocymum basilicum, sometimes of new cheese or pungent. Adhering to buried twigs and leaves Oct Diam In Changing to turquoise blue and black where bruised Commonly attacked by a bright orange mould, Sepatonium chrysospermum

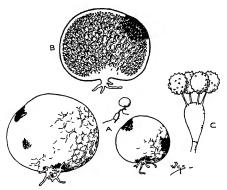


Fig 140 -- A, B Octa iania isterosperma Vitt, entire at different ages, and in section Natural size C basidium and spores X 500

2100 O Stephensii Tul (after H O Stephens) a b c

Irregularly globose or nodular-oblong, usually irregular in shape, base rugoso-plicate, cribrose, furnished with branched fibrous root-like growths Pe continuous, pale red to rufous, clouded darker Gl white then pale salmon, cells small, pale sienna

Odour disagreeable like 1280 About one quarter of the plant is usually seen above ground, but often wholly superficial, covered with dead leaves, etc Woods under lime trees with Nostoc Aug –Dec Diam 1½ in Exuding a white aromatic milky juice

2101 0 compacta Γul (from the compact substance) a b c

Irregularly subglobose, minutely cottony Pe continuous or slightly granular, white to ochreous-white GI salmon-white, cells pale salmon-buff

Gregarious Wholly or half buried, involved in rooting masses of white Myc Amongst roots, grass, earth and mycelium Oct -Nov Diam 4 in

CXXIV MELANOGASTER Corda

(From the black interior, Gr melas, black, gaster, the belly)

Peridium without a distinct base, branched fibres springing from every part of its surface Cells of gleba more or less rounded, large in the centre, smaller towards the periphery, walls of cells thick,

continuous with the peridium Spores 3-5, subsessile on the basidia, smooth, usually coloured (Fig 141)

The absence of a distinct rooting base, the branched fibres

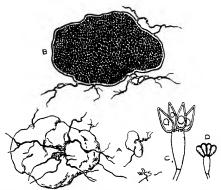


Fig. 141 —A. 1. Melan gaster am ignus lul. entire and in section. Natural size c. basidium and spores. X 500. D. basidium and spores of M. variegatus lul. X 500.

traversing the whole surface of the peridium and the smooth spores are characteristic Species 2102, 2103

2102 M variegatus Tul (from the variegated gleba) a b c

Irregularly globose or nodular-oval P_l adpressedly tomentose, at first yellow or ochrous, then dark reddish-ferruginous Gl blackish with indigo-black cells Trama white, whitish or bright orange

More or less exposed above ground during growth, covered with leaves and twigs. Taste sweet and approved by many when cooked, odour sharp, strong, aromatic, agreeable, not unlike bitter almonds. Under beech, poplar, oak June-No. 2½ in Spores 10 × 5p., elliptic oblong. I attention the Continent, harmless but hardly pleasant. Sold half a century or more ago as an esculent in Bath under the name of Red Turffit. Var Broomeanns: I ul. Trama dull white or yellowish, never bright yellow or orange. Usually gregarious, some two or three inches beneath the surface or half exposed. Scentless when young but soon acquiring a sweet, treacley odour, or a secunt of decaying pears.

2103. M ambiguus Tul (from its being doubtfully a true species, ambiguus, doubtful) a b c

Irregularly globosc or oval-nodular Pe nearly even, pale olive then reddish-brown Gl jet- or slate-black Trama buff-white or white

Highly fetud of assafœtida Under beech, popilar, oak, fir April-Oct 1½ in Spores, 13-15 × 7-8 μ ovate, propilate Var intermedius Tul has a vellowish trama which becomes red in drying

CXXV HYDNANGIUM Wallr ex Klotzsch

(From the tuberous form, Gr hudnon, a tuber or truffle, aggaon, a vessel)

Peridium fleshy or membranous, smooth or silky, sterile base not developed Trama vesicular, cells minute, unequal, at first empty then filled with globose or ovate, echinulate spores Spores 2-4. (Fig. 142)

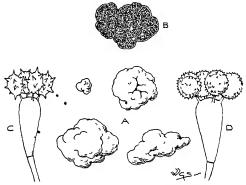


Fig. 142 A. F. H3dnangium carctacolor Berk entire and in section \times \$ c. basid um, and spores \times 660 D. basidium and spores of H carneum Wallr \times 660

The globose or ovate, usually small spores and the absence of a sterile base separate *Hydnangum* from its nearest ally *Octaviana*Species 2104, 2105

2104 H carotæcolor Berk (from the carrot-like colour, carota, carrot) a b c

Globoso-oblong or oblong-rounded, nodular, rootless P_ℓ thin, slightly tomentose, curot-red, becoming dark orange-brownish when dry G_ℓ orange

Sometimes half exposed, often superficial Woods, downs, under trees Aug -Jan Diam 1½ in

2105 H carneum Wallr ex Klotzsch (from the flesh-colour carneus, of flesh) a b c

Irregularly subglobose or rounded-elongate, 10otless, Pt very thin, at first covered with white fugacious down, flesh-colour, becoming ochreous-salmon when dry

Subterranean or hulf exposed, often superficial \text{\text{\text{\text{bove}}}} the roots of \text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\tex{\texi}\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\tex

CXXVI HYSTERANGIUM Vitt

(From the shape, Gr hustera, the womb, aggeton, a vessel)

Perdum more or less separating from the gleba in drying Gleba cartilagineo-glutinous, cavities at first empty Spores 2-3, seldom more, smooth (Fig 143)

Characterised by the elongate elliptical smooth spores and the cartilaginous-mucous consistency of the gleba, which resembles

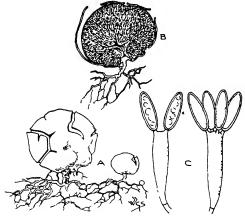


Fig. 143 -A 1 Hysterangium nephriticum Beik entire and in section X 3 c, basidia and spores X 660

that of Ithyphallus and Clathrus in the young state. There is frequently a copious development of mycelium. Species 2106, 2107

2106 H nephritieum Berk (from a fancied resemblance to a kidney when seen in section, Gr nephros, the kidneys) a b c

Irregularly globose, more or less indented *Pe* somewhat thick, firm, elastic, tomentose, white, becoming pale rufous when bruised. *Gl* pale blue or grey, here and there greenish, cells irregular, minute, radiating from the base.

Commonly 8-9 in deep in the ground Odour at first slight, then like Hypericum, at last like decaying puff balls Woods Sept -Feb 3 in

2107 H Thwaitesii B & Br (after George Henry Kendrick Thwaites) a b c

Irregularly globose, more or less indented Pe membranous, slightly silky, white, becoming rufous when bruised

Commonly 8-9 in deep in the ground Woods Aug -Oct & in

Rhizopogon

CXXVII RHIZOPOGON Fr

(From the tuberous growth with the attached fibres,

Gr rhiza, a root, pogon, a beard)

Peridum thick, subcoriaceous or submembranous, continuous or cracked and somewhat evanescent, with vein-like branched fibres

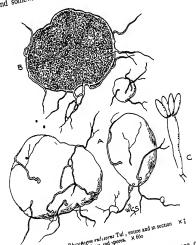


Fig. 144 $^{-\lambda}$ 1, R_1 is a frame rad , seems Tul., enture and in section \times 5. (, basedium and spores, \times 650

traversing and partially adnate to the surface, substance of gleba uaversing and parmany admine to the surface, source firm, cavilles at first empty. Spores 2-7 (Fig. 144) Species 2108, 2109 2108 R rubescens Tul (from its becoming vinous rose-colour when

unuseu, $r_{these cons}$, uecoming reu) $d \in C$. Irregularly subglobose or ovate P_t silk), white, when mature P_t silk), white, then yellowish, P_t at first white, then yellowish, yellow, olive or warm-brown Somewhat superical but often some inches deep Odour acid, when young on the some inches deep Odour acid, when young one of the some inches deep Odour acid, when young one of the some inches deep Odour acid, when young one of the some inches deep Odour acid, when young one of the sound of th omewhat supericial but often some inches deep Odour acid, when young in the sour ham, at kingth nameous feid Sandy Od. Deam 18 in the sour ham, at kingth nameous feid Sandy Od. Deam 18 in the sour high peaty or fibrous soil, amongst pies Borkeler anus Br, smaller and Var Berkeleyanus W. G. Sm., Melanogaviter Borkeler anus Br, smaller and haroly feid.

higaly fetid

2109. R luteolus Fr (from the dull yellowish colour when half-mature, luteolus, yellowish) a b c

r Irregularly subglobose or ovate Pe thick, subcoriaceous, whitish to dull yellow and olive- or nut-brown Gleba black with white septa

Solitary or gregarious Subterranean or partly exposed Taste insipid, odour at first weak then strong and offensive Sandy fir woods, under beech Sept -Oct Diam 18 in 1

CXXVIII HYMENOGASTER Vitt

(From the usually thin peridium, Gr humen, a membrane, gaster, the belly)

Globose or irregular *Peridium* fleshy or thin, simple, homogeneous, running down into a sterile base, except 2116 Cavities of gleba at first empty, radiating from the base or irregularly scattered

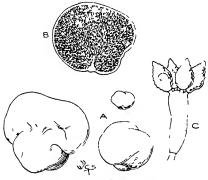


Fig. 145 —A 1 H3 menogaster tener Perk entire and it section X 3 6 besidium and spores X 66

Trana composed of elongate cells, not of by soud floces, not easily separable Spares 1-4 (Fig. 145)

All the species are nearly superficial in growth, none are edible Species 2110—2122

2110 H Klotzsehii Tul (after Johann Friedrich Klotzsch) a b c Irregularly globose to kidney-shaped Pe adpressedly downy, fibrillose at base, dull white becoming yellowish GI pallid, becoming rufous-ochre

Sandy soil Dec Diam g in

2111 H muticus B & Br (from the absence of a base, muticus, curtailed, blunt) a b

Globose, scarcely lobed Pc at length much cracked, white then brownish Gl almost destitute of a sterile base, somewhat firm and dry, cells loose, pale yellowish-brown

Odour clight Nov Diam 5 in

2112 H luteus Vitt (from the yellow gleba, luteus, yellow) a b c Irregularly globose or ovate, sometimes deformed Pe very thin, soft, silky, white to brownish Gl bright yellow Almost scentless or slightly sweet, becoming fetid Sept-Mar Diam I in

2113 H lycoperdineus Vitt (from the shape, like a small puff-ball,

Lycoperdon) a b c

Subglobose, somewhat deformed, varied in form, plicate at base, Pe smooth, white then pale whitish-salmon to brownish Gl soft, elastic, with somewhat large, irregular cavities, pallid to pale fuliginous

Gregarious Odour strong, onion like, unpleasant when dry In earth and clay Nov Diam 13 in

2114 H decorus, Bull (decorus, seemly) a b c

Irregularly globose or oval, sometimes slightly deformed Pedull white becoming yellowish in places Gl lilac-brown at length blackish

Woods, tan pits Oct -Nov Diam 18 in

2115 H vulgaris Tul ex B & Br (from its commonness, rulgaris, common) a b c

Subrotund, irregular, often indented, somewhat soft Pe white, becoming discoloured Gl with rather large irregular cavities, dull white then dark brown

Gregarious or subcrespitose Loose soil July-Oct Diam 5 in

2116 H pallidus B & Br (from the pallid peridium) a b

Rounded, depressed $P\iota$ nearly smooth, somewhat soft, white, then dull tan-colour then pale brown

Odour weak Fir plantations Oct Diam & in

2117 H eitrinus Vitt (from the colour, citreus, lemon-yellow) a b c. Irregularly globose or ovate, lobed, indented, deformed Peshning as if silky, greenish-lemon when young, then lemon, golden-yellow, bright brassy-yellow or sulphur-cream, becoming infous-black.

Used as food in past times by country folk in the truffle districts of England Odour, which communicates itself to anything near, strong of cheese May-Dec Diam 1½ in

2118 H olivaceus Vitt (from the colour of the gleba, like a ripe olive) a b c

Irregularly globose or ovate, lobed, indented, deformed Pe at first silky, whilish or faintly lemon, becoming rufescent when

- touched Gl whitish, passing through buff to rufous olive Trana white
- Odour spicy Woods May-Nov Diam 1½ in A form between this and 2117 has been named var modestus B & Br This is H populetorum B & Br non Tul
- 2119 H tener Berk (from the tender substance, tener, tender) a b c Globose, irregular, more or less indented, silky or obscurely scaly, soft, tender Pe thin, dull white GI with a conspicuous sterile base, pale rose, then greyish-brown
 - Odour strong, pungent, like the odour of acrid Lactaru, in decay like sewer gas. Woods, under oak leaves. Sept –Jan Diam 1 in This is H hlacrius B & Br non V itt
- 2120 H. Thwaitesii B & Br (after George Henry Kendrick Thwaites) a c

Irregularly ovate or elongate to globose, firm Pe dull white, here and there discoloured GI brown

Sept -Oct Diam 1 in

- 2121. H griseus Vitt (from the grey gleba, criscus, grey) a
 Globose, somewhat irregular or depressed Pe brown, at first
 covered with evanescent whitish down
 Gl with minute grey
 cells which become motiled-blackish
 - Odour sweet of hly of-the valley In leaf soil Diam 1 in
- 2122. H pusilius B & Br (from the small size, pusilius, small) a b
 Obovate or subdepressed, white GI with a comparatively large sterile base, cells comparatively large, dull white
 - Almost scentless Mossy ground Oct Dram h in Yellowish brown when dry and then closely resembling Sclerotium complanatum

RECENT ADDITIONS

- 52a. Lepiota serena Gill (screnus, clear, bright) White
 - P campanulate, glabrous, mid sometimes slightly darkened St slender, subbulbous A deciduous

Amongst grass Carlisle, Miss Decima Graham, Sept 1908 18 x 28 x 8 in

- 121a. Tricholoma carneolum Karst. (from the colour, caro, flesh)
 - P hemispherical to convexo-plane, pale flesh-colour St partly stuffed, rigid, subpruinose G finally very broad, very crowded, white

Grassy places in woods Yorkshire, Sept 1908 12 x 12 x 1 in

- 154b Clitocybe obscurata (ooke in litt (obscurus, obscure)
 - P plane, then infundibuliform, moist, greyish-umber, paler towards marg St solid, smooth or slightly striate, slightly attenuate

downwards and never clavate, colour as P - G decurrent, subdistant, white

Odour of meal Amongst grass and dead leaves in company with 154 Carlisle, Miss Decima Graham, Sept 1908 2 x 1½ x ¼ in

187a Clitocybe connata Gill (from the connate stems at the tuberous base) White

P fleshy, thin, conical, then expanded with an evanescent umbo, unequal, naked St hollow, thick, smooth G unequally decurrent, narrow, crowded, subarcuate

Moist woods Carlisle, Miss Decima Graham, Sept 1908 21 x 3 x 1/2 in

262 Collybia dryophila Quél Var alvearis Cooke in litt Large, coarse

P shaped like a bee-hive, rufescent at mid, 3 in diam S' very hollow

Amongst dead leaves Carlisle, Miss Decima Graham, Sept 1908

598a Pholiota sororia Karst (from its relationship to 593, soror, a sister)

P fleshy, convexo-expanded, striate, squamulose, fulvous cinnamon St fistulose, equal, flexuous, with white fibrillose sq , apex furfuraceous G sinuato-adnate, crowded, pallid-cinnamon

On wood shavings Yorkshire, Sept 1908

640a Inocybe commixta Bres (from being confused with 640, commixtus, mixed together)

P fleshy, conico-campanulate, expanso-umbonate, white or white-cinereous, silky-fibrillose, dry marg often fissile St solid, white, slightly pruinose, apex furfuraceous, base turbinato-bulbous G crowded free, white to grey-cinnamon

GENERA OMITTED

Cenococcum Fr, one of the Tuberacea

Pilaere Fr, placed by Lindau (in Engler and Prantl, P flanzen-familien, vol 1 pt 1**, p 86) near Auricularia, is of doubtful position

Polyangium Link, an insect production

Thelebolus Tode, one of the Λ scomycetes

CORRIGENDA

- Page 110, No 505a for C Sarnicus read C sarnicus
 - , 171, No 788 for P Elvensis read P elvensis
 - 317, after BOLETUS for Dill read I
 - , 333, after POLYPORUS for Mich r ad Haller 344, No 1563 after fumosus and Fr
 - ., 368, after MERULIUS for Halle rea Haller
 - ,, 436, No 1965a, /cr tenerima rea tenerrima
 - , 449, after TREMELLA for Inll r aa L
 - ,, 462 after CLATHRUS fer Micl , 11
 - , 467, after GEASTER for Mich rea lers

GLOSSARY

Adnate (adnascor, to grow to), of gills broadly attached to the stem

Adnexed (ad, to, necto, to join), of alls slightly joined to the stem

Æcidia (Gr. oil idion, a little house), small cup shaped fungi

Æruginous (a ruzo, rust of copper), the blue green colour of verdigris

Æstival (a tralis), belonging or peculiar to summer

Agglutinate (a, flutino, to slue), glued to a surface

Algal (alza, a see weed), relating to Alza, a group to which belong the seaweeds and many fresh water plants, including microscopic green plants which grow in water and damp plates

Alveolate (al-vu), a hollow), in the form of small depressions like a shallow honeycomb

Amphigenous (Gr* amphi, around, sennae, to beget), not confined to one surface all round, as in the hymenium of C'avarra

Anastomosing (for anastomosis, a bringing to a point), united by running to action irregularly

Annular, in the form of a ring

Annulate, bearing a ring on the stem

Annulus (annulu, a ring) the ring round the stem

Apiculate (a* x, the top) terminating in a sn all point

Appendiculate (affenaicula, a small appendage), hanging in small fragments

Applanate (al, to, planstu, made flat), flattened

Approximate (ad, to, froumo to approach) of gills which approach but do not touch the stem

Arachnoid (Gr. arachne, a spider's web, endos, resemblance) like a cobweb

Arcuate (arcuatus, bent like a bow), of gills, bow shaped

Areolate (area a plot, a space) divided into small areas or patches

Ascus ((sr askos, a wine skin), the swollen and of a hyphal branch, in which spores are borne in Ascomy des

Atomate, sprinkled with small particles

Basidium (basidium, a little pedestal) the mother cell which bears the spores in *Hymenomycetes* and Gasteromycetes

Bifid (bifidus, twice cleft), divided haif way into two

Bullate (bulla, a bubble), furnished with a boss or stud

Byssoid (byssus, time flax), composed of time threads

Cæspitose (caspes, a clump), growing in tufts

Calyptra (calyptra, a hood), any extinguisher shaped covering

Campanulate (campana, a bell), bell shaped

Cancellate (cance'latus), latticed, as in Clathrus

Capillitium (capillus, a hair), the dense mass of sterile fibres mixed with the sports in the globa of the Gasteromycetes

Cerebriform (cerebrum, the brain), having an irregular brain like appearance, like the kernel of a walnut

Ciliate (cilium, an eye lash), fringed with hairs

Cinereous (cinis, ashes), ash-coloured

Cingulate (cingulum, a girdle), bearing a ring or annulus on the stem

Clavate (clava, a club), club shaped

Columella (columella, a small pillar), the small columnar base of barren tissue in Lycoperdon, Geaster, etc

Conceptacle (conceptaculum, a receptacle), a hollow case enclosing reproductive bodies

Conchiform (concha, a shell), shell shaped

Concrete (concretus, growing together), as when the scales adhere to the flesh of the pileus

Conidia (Gr. konis, dust), simple ascaual spores

Connate (con, together, nascor, to be born), united by growing together

Connivent (conniveo, to wink), arching over to meet

Corraceous (corrum, leather), leathery

Cortex (bark or rind), the periderm in the Gasteroms cites

Corticate, with a bark like covering

Cortina (cortina, a veil), a veil of spider web structure as the veil in Cortinarius

Cortinate, furnished with a veil

Costate (costatus, ribbed), ribbed or veined

Crenate (rena, a notch), with rounded notches on the margin

Crenulate, with small rounded notches

Cribrose (cribrum, a sieve), pierced with many holes

Cupulate (cupula, a little cup) cup shaped

Cuspidate (cuspis, a point spear), with a sharp spear like point

Cuticle (cuticula, the outer skin), the outermost skin Cyathiform (Gr. kuathos, a wine cup), cup shaped

Decumbent (decumbe, to recline), reclining but with summit ascending

Decurrent (daurre, to run down), of gills and tubes running down the stem in the Asarnacea, Polyporacea, etc

Dehiscing (dehis, o, to yawn), opening when ripe

Deliquescent (deliquescens, melting away), becoming fluid when mature

Denticulate (denticulatus, minutely toothed), as in the minute teeth in the edge of the gills in certain A aricacae

Depressed (depressur, sunk down), slightly hollowed

Determinate (determino, to limit), ending definitely, as in the margin of some species of Corticium, etc., not powdered of clouded off indefinitely

Diaphanous (Gr. dia, through, thaino, to appear), more or less transparent

Dichotomous (Gr dichotomico, to cut in two), divided into two, forked

Dimidiate (dimidio, to halve), as when one part of an organ is smaller than the other as in the pilei of many fungi

Disciform (discus, a quoit), circular and flat

Dissemments (dissemmentum, a partition), dividing walls

Distant, of gills in the Agaricacea with a wide distance between them

Divaricate (divarico, to spread asunder), very divergent, separating at an obtuse angle

Echinulate (echinus, a hedgehog), with short bristles

Effused (effundo, to pour out), spread over without regular form

Emarginate (e, out of, margo, the margin), of gills with a sudden curve as if scooped out at the point of attachment to the stem

Endoperidium (Gr endon, within), the inner layer of the peridium

Endophyte, Entophyte (Gr entos, within, phuton, a plant), growing within another plant

Epiphyte (Gr epi, upon, phuton, a plant), growing upon another plant

Erumpent (erumpens, breaking through), bursting through the epidermis

Evanescent (evanescens, disappearing), lasting only a short time

Excipulus (excipula, a basin), the rim round the base of the apothecium

Exoperidium (Gr exo, without), the outer layer of the peridium

Farmose (farma, meal), mealy

Fasciate (fascia, a band or girth), zoned as with coloured bands

Fasciculate (fascis, a bundle), growing in small bundles

Fastigrate (fastigrum, a slope or gable), with branches parallel, clustered and erect, sometimes decreasing in height outwards and giving a gable shape

Ferruginous (ferrum, 1ron), of the colour of 1ron rust

Fibrillose (fibra, a tibre), clothed with small fibres

Filiform (filum a thread), thread like

Fimbriate (fimbria, a fringe), fringed

Fissile (fisuh, tending to split), capable of being split

Fistulose (fistula, & pipe), hollow like a pipe

Floces (floceus, a lock of wool), woolly locks

Floccose, woolly

Flocculent, diminutive of floccose

Flocculose, covered with small flocci

Free, of gill- which reach the stem, but are not attached to it

Fuliginous (fuligineus, sooty), soot coloured

Funiculus (funis, a rope), a cord of hyphre in Nidularia which attaches the peridiculum to the inner surface of the wall of the peridicum

Furcate (furcatus, forked) as in the branching gills common in Russula

Furfuraceous (furfur, bran) with branny scales or scurf

Fuscous (fuscus, dusky), of a dange brownish colour

Fusiform (fusic, a spindle), somewhat thick but tapering towards each end

Fusoid, somewhat spindle shaped

Gibbous (giblue, hump backed), of a pileus with a swelling or broad umbo, or convex above and flat beneath

Gills, the plates of an agaric on which the hymenium is situated

Glabrous (, laber, without hair), not bearing hairs

Glaucous (Gr , laukos, bluish-grev), covered with a bluish grey bloom

Gleba (, leba, a clod), the contents of the peridium in the Gasteromycetes

Greaved, of a stem clothed as if with a greave

Gregarious (, regarius, belonging to a flock), growing in company, but not company

Grumous (trumus, a little heap), clotted, of flesh composed of little clustered grains

Guttate (gutta, a tear), with tear like spots

Gyrose ((rr guros, round), curved backward and forward in turn

Habit (habitus, appearance), the general appearance

Habitat (habitatio, dwelling), the locality

Heterogeneous (Gr heteros, one of two, gennao, to beget), not uniform in structure

Hispid (hispidus, bristly), beset with rough hairs or bristles

Homogeneous (Gr homos, one and the same, sennao, to beget), uniform in

Hyaline (hualos, clear), colourless, translucent

Hybernaculum, hibernaculum (hiberna, to winter), applied to forms in which certain fungi pass the winter, selectors

Hygrometric ((or hugres, moist, metron, a measure), influenced by moisture

Hygrophanous (Gr hu, 10s, moist, phano, to appear), of a watery appearance when moist

Hymenium (Gr. humen, a membrane), the spore bearing surface

Hymenophore (Gr humen, a membrane, phero, to berr), the structure which bears the hymenum, as the under surface of the pileus to which the gills are attached in A_{carea} α_c, the sporophore

Hypertrophy (Gr. imfer above, trophe, food), an abnormal enlargement of an organ by disease

Hypha (G: huphe, a web), pl hyphæ, the thread like element of which a lungus is made up

Imbricate (imbricaties, covered with tiles), overlagping as the tiles on a roof

Immarginate (in, negative, marge, a marge) with out a distinct border Immersed, sunk in the matrix

Inferior (inferior, lower) of the annulus on the stem sar down

Infundibuliform (infundibulum, a funnel), funner shaped

Innate (m, into, nascor, to be born), add ering by 51 wing 1000

Involute (in, in, "of o, to roll), rolled inwirds.

Isabelline or Isabella colour, dirty tawny, as of soiled linen

Laciniate (lacinia, a lappet, flap), divided into flaps

Lacunæ (lacun: a hole or cavity), holes or depress rs

Lacunose, marked with small hollows

Lamelize (lamella, a thin plate), the gills in A, arr a c

Lanceolate (lancea, a lance or spear), lance shaped narrow and tapening to both ends

Linear (linea, a line), narrow and straight, several times longer than wide

Loculus (loculus, a little compartment), a cell of a septate spore

Mammiform (mamma, a breast), breast shaped

Marginate (mar, o, a margin), having a distinct border

Matrix (matrix, the womb), the substance on which a fungus grows

Medial (medium, the middle), of the annulus, when at the middle of the stem

Merismoid (Gr merizo, to divide, eidor, form), having a branched or licinistic

Merulioid, resembling the hymenium of Merulius

Mitrate (Gr mitra, a head-dress), with thick rounded pileus

Mucedinous (mucedus, mouldy), of the nature of the group Mucedines, naked spored moulds

Multifid (multifidus, many cleft), divided half way into many lobas

Multipartite (multipartitus, many times divided), divided many times and more deeply than multifid

Muricate (murex, a sharp stone, a bit with sharp spikes, a spiked ball), rough with short hard tubercular excrescences

Muriform (murus, a wall), with cells resembling bricks in a wall

Mycelium (Gr mukes, a fungus), spawn of fungi, the vegetative portion, composed of hyphæ

Mycology (Gr mukes, a fungus, logos, a discourse), the study of fungi

Nuclear (nucleus, a kernel), pertaining to a kernel like growth as in Næmatelia

Obconic (ob, inversely, conus, a cone), inversely conical

Obovate (ob, inversely, ovum, an egg), inversely egg shaped

Obtuse (obtusus), blunt or rounded at the end

Ochreous (ochra, yellow earth), yellow, not red-ochre

Operculum (operculum, a lid), a cover

Ostiolum (ostiolum, a little door), the aperture through which the spores escape in the Gasteromy cetes

Ovate (et um, an egg), egg shaped

Papilla (fapilla, a nipple), a nipple like elevation

Papillate, Papillose, with nipple like elevations

.Paraphyses (Gr para, beside, phusis, growth), sterile filaments in a hymenium

Partial, of a veil, clothing the stem and reaching to the edge of the pilcus, but not extending beyond it

Patelliform (patella, a small dish), dish shaped

Pectinate (fatin, a comb), like the teeth of a comb

Pedicel (fe ticulus, a small foot), a support or stalk, as the small column which supports the inner peridium in some species of Geaster

Pedicellate, born on a pedicel

Pellicle (/ llicula, a small skin), a delicate superficial membrane

Pelliculose, furnished with a pellicle or delicate distinct skin

Peltate (Al a, 1 target), target shaped

Pencilled with pencil like hairs either on the tip or border

Penicillate (tenicillum, a little brush), pencil shaped

Peridiola, diminutive of peridium

Peridium (Gr peridion, a little pouch), the outer enveloping coat enclosing the gleba in the Gasteromiceles

Peristome ((17 fert, about, stoma, a mouth), the fringe or its homologue round the orthoc of the peridium in Geaster, Tulostoma, etc., amongst the Gastaro mycete.

Perithecium (Gr. feri, about, theke, a case), a receptacle enclosing spores

Peronate (pero, a kind of high boot), sheathed, e.g. of a stem which has a woolly covering like a legged boot

Pervious (pervius, passable), having an open passage way, hollow to the base, as in some stems

Pezizoid (ridos, resemblance), cup shaped, like a Peziza, a genus of Ascomacetes

Pileate, with a cap

Pileoli, secondary pilei, arising from the division of a primary pileus

Pileus (pileus, a cap), a part of the receptacle of a fungus, e.g. the cap like head in A. aricaccae

Pilose (filus, a hair), covered with hairs

Plane (planus), level, even, flat

Plasmodium (Gr. plasma, formed substance), the naked nucleated protoplasm of the Myctozoa

Plicate (plue, to fold), folded into plants

Plumese (plumosus, feathered), downy

Polymorphic (Gr polus, many, morphe, a change), with several or various forms

Poriform, in the form of pores

Porous, furnished with pores

Potential (potentia, a force), existing in possibility, rather than in actuality

Proliferous (proles, offspring, fero, to bear), applied to an organ which gives rise to secondary organs of the same kind

Promycelium (pro for, mycelium, the vegetative portion of the thallus composed of hyphx), the short lived product of germination of a spore which bears spores of a different nature from the mother spore

Protoplasm (Gr protos, first, plasma, formed substance), the living substance of plants and animals

Prumose (pruma, hoar frost), covered with frost like bloom

Pruniform (prunus, a plum), plum shaped

Pubescent (puber, downy), slightly hairy

Pulverulent (pulverulentus, dusty), powdered as if dusted over

Pulvinate (pulvinus, a cushion), cushion shaped

Punctate (punctus, a point), doited with points

Pyriform (fyrus, a pear), pear shaped

Racemose (racenius, a bunch of grapes) borne in a bunch

Radiate (radius, the spoke of a wheel), spreading from a centre

Receptacle (receptaculum, a reservoir), an axis bearing on, or more organs, as the stem upon which the hymenium is clevated in the Phalloria i

Remote, of gills which do not reach the stem but leave a free space round it

Remform (renes, the kidneys), kidney shaped

Repand (repando to throw open), bent backwards

Resupinate (recupine, to throw on the back), with hymenium upward

Reticulate (vete, a net), netted

Revolute (revolvo, to roll back), rolled backwards, of the margin of a pileus—the opposite of involute

Rhizomorphoid, rhizomorphous (or rhiza, a root, morphe, shipe), like a rhizomorph, a root like branched strand of mycchal hyphx

Rimose (rima a crack) cracked

Rimulose, diminutive of rimose

Ring, a part of the veil adhering to the stem in the form of a ring or a nulus

Rivulose (rivula, a small stream) marked with lines like rivulets

Rounded, applied to gills and tubes, rounded near point of confact with the stem

Rubiginous (rubi, o, rust), colour of iron rust

Rufescent (rufescens), becoming reddish

Rufous (rufus), reddish

Rugose (ru, a, a wrinkle), wrinkled

Rugulose, somewhat wrinkled

Scabrous (scaber, rough), rough on the surface

Scales, applied to the broken up epidermis of the pileus and stem

Scarious (Gr skaros, a kind of sea fish), applied to a shrivelled membrane

Scissile (scindo, to cleave), capable of being cleft asunder, of two plates, it lying together, but capable of being separated

Sclerotioid, sclerotium like

Scierotum (Gr skleros, hard), a compact mass of hyphæ in a dormant state

Scrobiculate (scrobis, a trench), marked with small pits

Separating, becoming detached, as gills from a stem, or resupinate fungi from the matrix

Septate, divided

Septum (septum, a hedge), a division

Serrate (serra, a saw), toothed like a saw

Serrulate, minutely toothed

Sessile (sideo, to sit), seated without a stem

Setæ (seta, a bristle), bristles

Setulose, resembling a fine bristle

Simple, applied to a stem without ring or volva

Sinuate, waved, of a pileus with a wavy or curved margin, of gills with a sudden wave, curve or sinus where they reach the stem

Sinus (unus), a curve

Smooth, applied to a surface which is destitute of hairs or other protuberances

Spathulate (Gr spathe, a spatula), spoon like

Spawn, sec Mycelium

Sphæriæ, small spherical black fungi common on branches

.Spiculæ (spiculum, a small needle), fine erect acutely pointed spines

Spinulose (spina, a thorn) bearing fine spines

Sporangium (Gr spora, a seed, a geion, a vessel), a spore bearing receptacle

Spores ((r spora, a seed), the analogues of seeds of flowering plants

Sporidia, diminutive of spores-small spores

Sporophore ((ir spora, a seed, phoreo, to carry), the part which bears the hymenial surface

Squamose (squama, a scale), scaly

Squamule, a small scale

Squamulose, covered with small scales

Squarrose (quarresus, rough, scurfy), rough with scales

Sterigma (Gr steri_s ma, a prop), pl sterigmata, the slender thread which carries a spore

Stipes (stipes), a stalk

Stipitate, stemmed

Stolomferous (stolo, a short sucker or runner, fero, to bear), stolon bearing

Stoma (Gr stoma, a mouth), the mouth through which the spores escape in certain fungi, as Geaster, Tulos'oma, etc

Striate (dria, a furrow, flute of a column), marked with lines in the form of channels

Strigæ (striga, a swathe), small straight hair like scales

Strigose, rough with sharp pointed bairs, hispid

Stroma (Gr. troma, a mattress), a cushion like body in which the perithecia of some tungi are immersed

Stuffed, of a stem filled with substance of a different texture from its walls

Subsculum (subsculum, an under layer), the telted or byssoid mycelium of a resupinate fungus, forming the under layer bearing the hymenium

Sulcate (vulcus, a furrow), marked with grooves

Superior (sufer, above), applied to the annulus when it is near the apex of the stem

Terete (teres, rounded), circular in transverse section

Tessellate (tessellatus, squared stones), checquered

GLOSSARY

Tetrasporous (Gr tetras, four, spora, a seed), bearing four spores

Thalius (Gr thallos, a sprout), the whole of the body which does not serve for reproduction

Tomentose (tomentum, wool, etc.), downy

Trama (trama, the weft or filling of a web), the substance between the hymenral layers in Agaricacca and Polyporacca

Tremelloid (tremo, to tremble), of the consistency of jelly

Truncate (trunco, to main), ending abruptly as if cut short

Tubercle (tuberculum, a little tuber), a small wart like excrescence

Tuberculate, with small warty projections or excrescences

Tuberculiform, resembling a little tuber

Tubiform (tuba, a trumpet), trumpet shaped

Turbinate (turbinatus, cone shaped), top shaped

Umbilicate (umbilicus, the navel) with a small central depression

Umbonate (umbo the boss of a shield), with a central boss like elevation

Uncinate (uncinus, a hook) hooked

Universal, of the veil or volva which entirely envelops the funeus when young

Urceolate (urceola n pitcher), pitcher like, hellow and contracted at the metals, like an urn or pitcher

Veil (reliem, a covering), a covering of various texture more or less empirically enwrapping a fungus when young

Veliform ("c'um, a covering) of 1 thin well like covering

Venose ("enosus, veiny), having veins

Ventricose (zenter, the belly), swollen in the middle

Vermiform (zermis, a worm) worm shaped

Verrucose ("coruca, a wart), warts

Versiform (*\(\sigma\) (points, changing shape), of different shapes, or alterns, it shape with age

Villous (villus, a tuft of han), downs with soft lairs

Vinous, of the colour of clare dark or dilute

Virgate (r.a. 1 twig, stripe), streaked

Volva (- olva, a wrapper) a covering or sac cryelopin, the voting fe ...

Volvate, having a volva

Zone, a circle of hairs, aspenties, colour etc

He a micromillimetre or water of a millionetre, used for spore mea uremen

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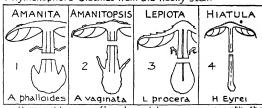
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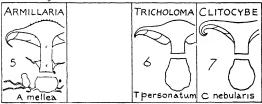
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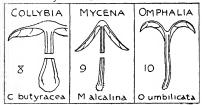
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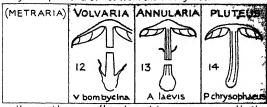
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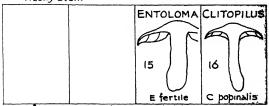
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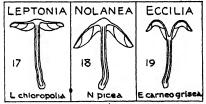
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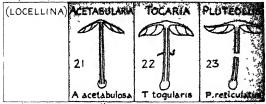
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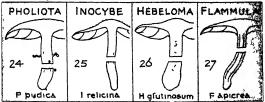
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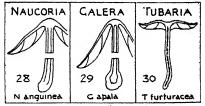
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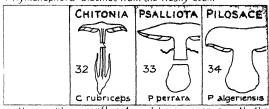
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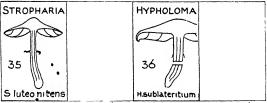
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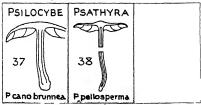
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