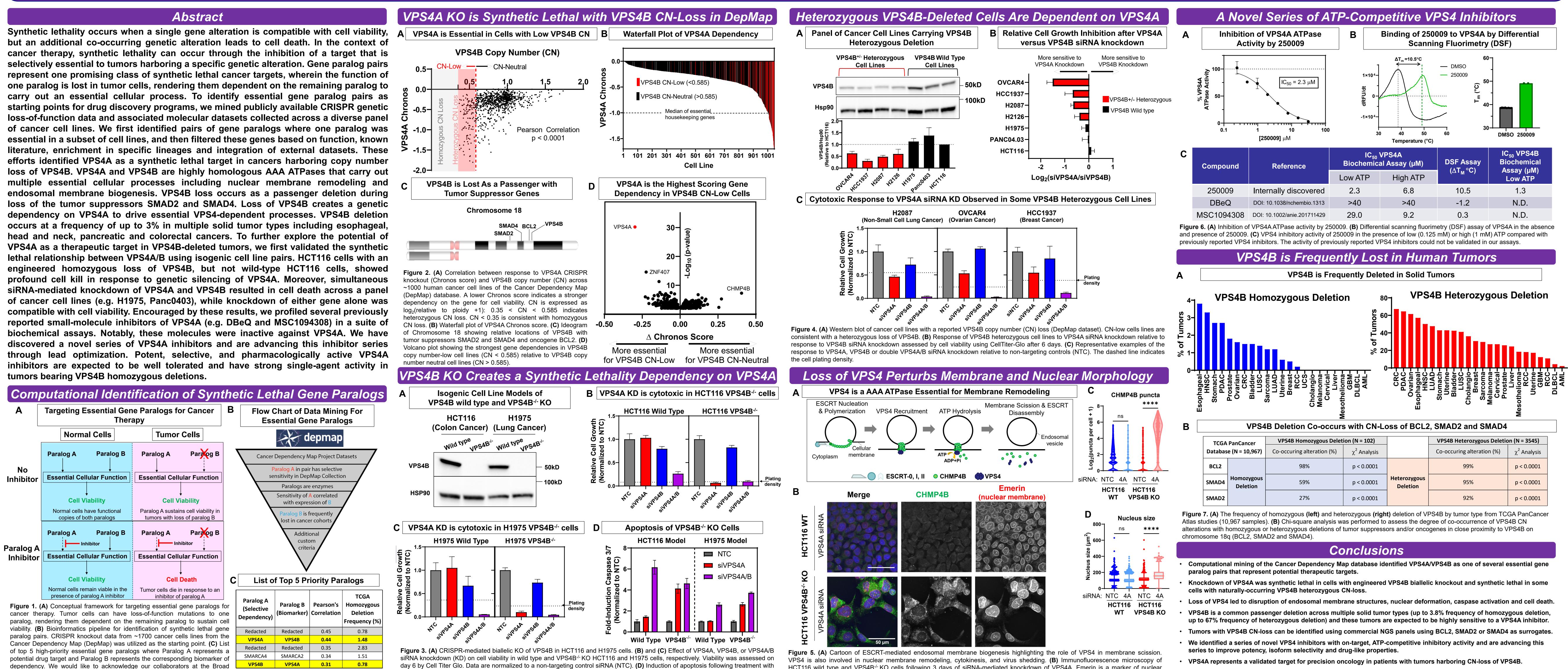
Abstract Number: 1816



DepMap Consortium for access to the latest functional genomic datasets.

Identification of novel VPS4A inhibitors for the treatment of VPS4B-deleted cancers Meredith Kuo, Jason Chen, Sacha Holland, Eugene Lurie, An-Angela Ngoc Van, Francesco Parlati, Nidhi Patel, Tayna Santos, Eric Sjogren, Natalija Sotirovska, Susanne Steggerda, Andrew MacKinnon Calithera Biosciences Inc., South San Francisco, CA

HCT116 wild type and VPS4B^{-/-} KO cells following 3 days of siRNA-mediated knockdown of VPS4A. Emerin is a marker of nuclear the indicated siRNA in isogenic cell line pairs. Caspase activation was assessed on day 3 post-transfection. membrane. (C) and (D) Quantitation of images from part (B). Non-targeting siRNA control (NTC).



TCGA PanCancer Database (N = 10,967)		VPS4B Homozygous Deletion (N = 102)			VPS4B Heterozygous Deletie	on (N = 3545)
		Co-occuring alteration (%)	χ^2 Analysis		Co-occuring alteration (%)	χ^2 Analysis
BCL2	Homozygous Deletion	98%	p < 0.0001	Heterozygous Deletion	99%	p < 0.0001
SMAD4		59%	p < 0.0001		95%	p < 0.0001
SMAD2		27%	p < 0.0001		92%	p < 0.0001

- Future target validation work will also explore the dependency of VPS4B in VPS4A-deleted cell lines and tumor models.