GENETICS, BIOINFORMATICS, AND SYSTEMS BIOLOGY COLLOQUIUM

THURSDAY MAY 5TH 12:00 PM PST

PASSWORD: IGM

KIMBERLY STEGMAIER, MD
DANA-FARBER CANCER INSTITUTE, HARVARD UNIVERSITY

A First Generation Pediatric Cancer Dependency Map

Key themes have emerged in the study of pediatric cancers over the last decade: 1. High incidence of fusion oncoproteins, 2. Simple genomic landscapes with few recurring point mutations, 3. Mutations involving transcription factors or epigenetic regulators, and 4. Limited responses to immune checkpoint inhibitors. As such, most childhood cancers will not have a matched targeted therapy revealed from the sequencing of their genomes given our current therapy armamentarium. Pediatric cancer, however, remains the leading cause of disease-related death in children, highlighting the need for new treatment approaches. To address this problem, my laboratory has pursued functional genomic approaches, collaboratively creating a Pediatric Cancer Dependency Map, to identify new therapeutic targets and mechanisms underlying childhood cancers. In this lecture, I will discuss the findings of our first- generation Pediatric Cancer Dependency Map.

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Thursdays @ 12PM PST
Live on Zoom!

SPRING 2022

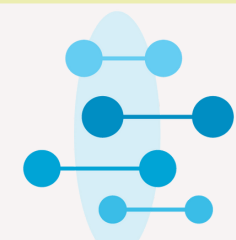|	
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