

SFB 900 Seminar Series

ALL GUESTS ARE WELCOME

TITLE

Detection of RNA modifications and novel viral transcripts revealed by direct RNA sequencing.

SPEAKER

Dr. Alex Price, Matthew Weitzman Lab, Children's Hospital of Philadelphia, Center of Childhood Cancer Research, Philadelphia, USA

LOCATION

Digital Lecture via video conference



01.07.
2021

5.00 PM (s.t.)

» Research of Weizmann Lab

Led by Matthew D. Weitzman, PhD, researchers in the Weitzman Laboratory are investigating the molecular relationships between viral infection and cellular DNA damage response (DDR) pathways, as well as studying their contribution to genome instability and cellular transformation/tumorigenesis. The goal of the research in this laboratory is to identify and characterize virally-induced changes that dysregulate DDR pathways, promote genome instability and lead to transformation of normal cells to malignant ones.

Ongoing studies in the Weitzman Laboratory demonstrated that dysregulation of the human apolipoprotein-B mRNA editing catalytic polypeptide-like (APOBEC3) family of cytidine deaminases can result in mutations and genome instability that could possibly induce cellular transformation of normal cells. Studies found that overexpression of the APOBEC3 family member A3A, induced DNA breaks, activated the DDR and led to cell cycle arrest. Recent work suggests that upregulation of APOBEC3 activity in tumor cells could provide an opportunity for targeted therapy.

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