

## Research Interests

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### ***Matthew Weitzman Ph.D.***

The long term goal of the Weitzman laboratory is to understand the cellular host responses to viral infection as well as the microenvironment manipulated by the viruses. His group has a particular interest in understanding the interactions between the oncogenic viruses and the DNA repair pathways. How does the cell genome maintain its integrity in the face of viral infections and the dynamic interactions which occur during viral infections? His lab is instrumental in understanding mechanisms related to cellular machinery important for resolving DNA damage as a defense against viral infection. They study the Adenovirus, and associated viruses to develop strategies for manipulating host defense.

*Interactions with other trainers:* Dr. Weitzman is an active member of the training program. He has been instrumental in further developing our program in DNA damage response related to oncogenic viruses. He collaborates with Drs. Lieberman, You, Robertson and Tikhonenko in studies related to DNA damage responses in Merkel Cell polyoma virus infection as well as EBV and KSHV infections.