

## Research Interests

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### ***David Feldser Ph.D.***

The goal of the Feldser laboratory is to study the progression and metastasis of cancer in their microenvironment. He is investigating the activation of oncogenes to identify the cellular pathways that are important for driving the progression and metastatic activities. What are the pathways altered due to mutations in major tumor suppressor genes and oncogenes. These approaches using the cutting edge technologies in model systems will allow for deconstructing the underlying complex process of oncogenesis. He will also use viral infection as a model for induction of mutagenesis of these tumor suppressors and oncogenes, including EBV encoded EBNA1, and the KSHV encoded LANA both known to induce chromosomal aberrations. Oncogenic viruses are known inducers of mutations, and he will use these latent viral oncogenes to monitor changes in cellular genes that disrupts cell proliferation, immune response and gene inactivation.

*Interactions with other trainers:* Dr. Feldser has ongoing interactions with a number of trainers including Dr. Yang, Tikhonenko, You, and Weitzman. He is an expert in gene amplification and tumor initiation and progression and brings a unique talent to the training program.