

2019 Trainees

Karina Diaz

Mentor: Jason Smith (Microbiology, University of Washington)

Project Title: *Identifying determinants for defensin-mediated inhibition and enhancement of rotavirus infection*

Meghan Garrett

Mentor: Julie Overbaugh (Human Biology, Fred Hutch)

Project Title: *Isolating and characterizing HIV-specific ADCC-mediating antibodies from non-transmitting mothers*

Sarah Hickson

Mentor: Jenny Hyde (Microbiology, University of Washington)

Project Title: *The role of RNA structure in alphavirus pathogenicity*

Emily Hsieh

Mentor: Michael Emerman (Human Biology, Fred Hutch)

Project Title: *Characterization of novel factors that promote a HIV-1 latency state*

Hananh Lewis

Mentor: Daphne Avgousti (Human Biology, Fred Hutch)

Project Title: *Investigating the function of histone variant macroH2A1 during lytic HSV-1 infection*

Caelan Radford

Mentor: Jesse Bloom (Basic Sciences, Fred Hutch)

Project Title: *Deep mutational scanning of combinations of mutations to model epistasis in HIV envelope*

Brianna Traxinger

Mentor: Jennifer Lund (Vaccine and Infectious Disease, Fred Hutch)

Project Title: *Role of vaginal Tregs in the immune response to herpes simplex virus 2*

2018 Trainees

Kristine Dye

Mentor: Denise Galloway (Human Biology)

Project Title: *The Role of Merkel Cell Polyomavirus T-antigens in Tumorigenesis*

Brianna Traxinger

Mentor: Jennifer Lund (Vaccine and Infectious Disease)

Project Title: *Role of vaginal Tregs in the immune response to herpes simplex virus 2*

Daniel Vogt

Mentor: Michael Lagunoff (UW Microbiology)

Project Title: *Characterization of a defect in STING signaling in neonatal lymphatic endothelial cells and its role during KSHV latency*

Shivam Zaver

Mentor: Joshua Woodward (UW Microbiology)

Project Title: *The Expanded Repertoire of cGAMP Mediated Antiviral Responses*

2017 Trainees

Kristine Dye

Mentor: Denise Galloway (Human Biology)

Project Title: *The Role of Merkel Cell Polyomavirus T-antigens in Tumorigenesis*

Ted Gobillot

Mentor: Julie Overbaugh (Human Biology)

Project Title: *Type-I interferoninduced restriction of Zika virus replication*

Daniel Vogt

Mentor: Michael Lagunoff (UW Microbiology)

Project Title: *Characterization of a defect in STING signaling in neonatal lymphatic endothelial cells and its role during KSHV latency*

2016 Trainees

Erin Garcia

Mentor: Michael Emerman (Human Biology)

Project Title: *Susceptibility of differential primate species to DENV NS5-mediated STAT2 degradation*

Sarah Hilton

Mentor: Jesse Bloom (Basic Sciences)

Project Title: *Mapping antiviral immune selection on influenza neuraminidase in vivo*

Justine Levan

Mentor: Rachel Katzenellenbogen (UW Pediatrics)

Project Title: *High-risk HPV E6 and NFX1-123: cell dysregulation, oncogenesis, and persistent infection*

Heather Machkovech

Mentor: Jesse Bloom (Basic Sciences)

Project Title: *Evaluation of alternative start codons as a source of CD8 T-cell epitopes in influenza*

2015 Trainees

Mayumi Holly

Mentor: Jason Smith

Project Title: *Mechanism of Paneth Cell Degranulation in Response to Viral Stimuli*

Justine Levan

Mentor: Rachel Katzenellenbogen (UW Pediatrics)

Project Title: *High-risk HPV E6 and NFX1-123: cell dysregulation, oncogenesis, and persistent infection*

Heather Machkovech

Mentor: Jesse Bloom (Basic Sciences)

Project Title: *Evaluation of alternative start codons as a source of CD8 T-cell epitopes in influenza*

2014 Trainees

Michael Doud

Mentor: Jesse Bloom (Basic Sciences)

Project Title: *High-throughput profiling of influenza virus resistance to heterosubtypic immunity*

Daniel Holmes

Mentor: Michael Lagunoff (UW Microbiology)

Project Title: *Viral and Cellular Determinants of Warburg Effect Induction*

Cassandra Simonich

Mentor: Julie Overbaugh (Human Biology)

Project Title: *Characterizing broadly neutralizing antibody responses of HIV-1 infected infants*

Andrew Soerens

Mentor: Jennifer Lund (Vaccines and Infectious Diseases)

Project Title: *Defining the contributions of regulatory T cells to mucosal antiviral immunity*

2013 Trainees

David Boyd

Mentor: Julie Overbaugh (Human Biology)

Project Title: *Identifying viral determinants of robust viral replication in non-human primate models of HIV-1 infection*

Caitlin Milligan

Mentor: Julie Overbaugh (Human Biology)

Project Title: *Fc-Mediated Antibody Responses in HIV-1 Mother-to-Child Transmission*

Sowmya Pattabhi

Mentor: Michael Gale (UW Immunology)

Project Title: *DHX15: A novel regulator of innate antiviral response during RNA virus infection*

Andrew Soerens

Mentor: Jennifer Lund (Vaccines and Infectious Diseases)

Project Title: *Defining the contributions of regulatory T cells to mucosal antiviral immunity*

2012 Trainees

David Boyd

Mentor: Julie Overbaugh (Human Biology)

Project Title: *Identifying viral determinants of robust viral replication in non-human primate models of HIV-1 infection*

Caitlin Milligan

Mentor: Julie Overbaugh (Human Biology)

Project Title: *Fc-Mediated Antibody Responses in HIV-1 Mother-to-Child Transmission*

Sowmya Pattabhi

Mentor: Michael Gale (UW Immunology)

Project Title: *DHX15: A novel regulator of innate antiviral response during RNA virus infection*

2011 Trainees

Valerie Cortez

Mentor: Dr. Julie Overbaugh (Human Biology)

Proposal Title: "Characterizing the effect of HIV-1 superinfection on the development of antibody breadth: gaining insight into the elicitation of broadly neutralizing antibodies"

Alison Kell

Mentor: Dr. Gael Kurath (UW Global Health, Pathobiology)

Proposal Title: "Investigations of viral genotype displacement events using *in vivo* superinfection and co-infection fitness assays for a vertebrate RNA virus"

Chelsea Spragg

Mentor: Dr. Michael Emerman (Human Biology)

Proposal Title: "Characterizing the role of a novel transport factor in the life cycle of HIV-1"

Sarah Wilson

Mentor: Dr. Michael Lagunoff (UW Microbiology)

Proposal Title: "Defensin-mediated antiviral immune modulation"

2010 Trainees

Alex Compton

Mentor: Dr. Michael Emerman (Human Biology)

Proposal Title: Characterizing the functional consequences of APOBEC3 polymorphism in African Green Monkeys

Melanie Gasper

Mentor: Dr. Don Sodora (SBRI)

Proposal Title: HIV-1 pathogenesis and macrophage dysfunction