

**Table 2. Participating Faculty Members  
(Alphabetically by Faculty Member)**

**TRAINING FACULTY:**

**Experienced Mentor:** Faculty have supervised the successful completion of at least one Ph.D.

**Mentor:** Faculty are established scientists who have supervised fellow training, but have not yet trained a Ph.D. student.

**New Mentor:** Junior faculty with appropriate training and potential to serve as successful graduate mentors.

**RESOURCE FACULTY:** Experienced researchers/educators who do not serve as dissertation mentors, but contribute to Program teaching and committee service.

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Name/Degree(s)	Rank	Primary (& Secondary) Appointment(s)	Role in Program	Research Interest
Allen, Lee-Ann, Ph.D.	Professor	Internal Medicine (Immunology, Microbiology, Molecular & Cellular Biology, MSTP)	Experienced Mentor	Research in my laboratory studies the mechanisms of pathogenesis of two Gram-negative bacteria – <i>Helicobacter pylori</i> and <i>Francisella tularensis</i>
Badovinac, Vladimir, Ph.D.	Associate Professor	Pathology (Immunology, MSTP)	Experienced Mentor	Generation and manipulation of memory CD8 T cell responses
Bishop, Gail, Ph.D.	Professor	Microbiology (Immunology, Internal Medicine, Molecular & Cellular Biology, MSTP)	P.I. and Experienced Mentor	Molecular mechanisms of lymphocyte activation in normal immunity, autoimmunity, and malignancy
Colgan, John, Ph.D.	Associate Professor	Internal Medicine (Anatomy & Cell Biology, Immunology, Molecular & Cellular Biology, MSTP)	Experienced Mentor	Regulation of lymphocyte development and function
Harty, John, Ph.D.	Professor	Microbiology (Immunology, Microbiology, MSTP, Pathology)	Experienced Mentor	T cell responses to infection
Houtman, Jon, Ph.D.	Associate Professor	Microbiology (Immunology, Microbiology, Molecular & Cellular Biology, MSTP)	Experienced Mentor	The goal of my laboratory is to understand the molecular mechanism of the formation of the multiprotein signaling complexes that occur after T cell receptor (TCR) activation

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Karandikar, Nitin, M.D./Ph.D.	Professor and Chair/DEO	Pathology (Immunology, Molecular & Cellular Biology, MSTP)	Experienced Mentor	The goal of our research is to understand immune interactions that underlie the pathogenesis and regulation of immune-based diseases, mainly focusing on multiple sclerosis
Legge, Kevin, Ph.D.	Associate Professor	Pathology (Immunology, Microbiology, MSTP)	Experienced Mentor	Dendritic cell immunobiology and pulmonary immunity
Morita, Craig, M.D./Ph.D.	Associate Professor	Internal Medicine (Immunology, MSTP)	Experienced Mentor	Human $\gamma\delta$ T cell recognition of nonpeptide antigens: Discriminating friend from foe through the recognition of prenyl pyrophosphate metabolites
Nauseef, William, M.D.	Professor	Internal Medicine (Immunology, Microbiology, MSTP)	Experienced Mentor	The molecular and cell biology of human neutrophil function
Perlman, Stanley, M.D./Ph.D.	Professor	Microbiology (Immunology, MSTP, Neuroscience, Pediatrics)	Experienced Mentor	Study of coronavirus pathogenesis, including demyelination and SARS
Petersen, Christine, D.V.M., Ph.D.	Associate Professor	Epidemiology (Immunology, Microbiology)	Experienced Mentor	Host zoonotic pathogen interactions using relevant animal model systems
Smith, Richard, M.D.	Professor	Otolaryngology (Genetics, Immunology, Internal Medicine, Molecular & Cellular Biology, Molecular Physiology & Biophysics, MSTP, Pediatrics)	Experienced Mentor	The MORL uses genetic and functional studies of the complement cascade to study the pathogenesis of ultra-rare complement-mediated renal diseases and to identify therapeutic targets to mitigate renal damage
Sutterwala, Fayyaz, M.D./Ph.D.	Associate Professor	Internal Medicine (Immunology, Molecular & Cellular Biology, MSTP)	Experienced Mentor	Biology of the NLR family of pattern recognition receptors in infection and inflammation

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Varga, Steven, Ph.D.	Associate Professor	Microbiology (Immunology, MSTP, Pathology)	Experienced Mentor	Viral immunology and immunopathology
Weiner, George, M.D.	Professor	Internal Medicine (Immunology, MSTP)	Experienced Mentor	Novel approaches to cancer immunotherapy including the evaluation of monoclonal antibody therapy, and new strategies for tumor immunization
Weiss, Jerrold, Ph.D.	Professor	Internal Medicine (Human Toxicology, Immunology, Microbiology, MSTP)	Experienced Mentor	Innate immune recognition and defense
Wilson, Mary, M.D.	Professor	Internal Medicine (Epidemiology, Genetics, Immunology, Microbiology, Molecular & Cellular Biology, MSTP)	Experienced Mentor	Dr. Wilson's research focuses on the molecular and immunobiology of infection with the protozoan parasite, <i>Leishmania</i>
Xue, Hai-Hui, M.D./Ph.D.	Associate Professor	Microbiology (Immunology, MSTP)	Experienced Mentor	Transcription regulation of hematopoietic stem cell self-renewal and differentiation to T lineages
Zavazava, Nicholas, M.D./Ph.D.	Professor	Internal Medicine (Immunology, MSTP)	Experienced Mentor	Immunobiology and differentiation potential of ES/iPS cells
Vyas, Yatin, M.B.B.S./M.D.	Professor	Pediatrics (Immunology, Molecular & Cellular Biology)	Mentor	Epigenetic regulation of the transcription program of Th1-network genes by WASP
Cassel, Suzanne, M.D.	Assistant Professor	Internal Medicine (Immunology)	New Mentor	Regulation of the innate immune response and its impact on CD4 T cell responses

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Lieberman, Scott	Assistant Professor	Pediatrics (Immunology)	New Mentor	The goal of our research is to understand the mechanisms of immune dysregulation that lead to organ-specific autoimmunity with a focus on Sjögren syndrome (lacrimal and salivary gland autoimmunity).
Salgado-Pabon, Wilmara, Ph.D.	Assistant Professor	Microbiology (Immunology)	New Mentor	<i>Staphylococcus aureus</i> pathogenesis and manipulation of adaptive immune responses
Zhang, Weizhou, Ph.D.	Assistant Professor	Pathology (Immunology, Molecular & Cellular Biology)	New Mentor	Mechanistic study related to breast cancer-initiating cells and tumor microenvironment
Ballas, Zuhair, M.D.	Professor	Internal Medicine (Immunology)	Resource	Clinical interests place major emphasis on the evaluation of immune dysfunction
Giudice, George, Ph.D.	Professor	Dermatology (Biochemistry, Immunology)	Resource	Autoimmune blistering skin diseases
Hirsch, Raphael, M.D.	Professor and Head	Pediatrics (Immunology, MSTP)	Resource	Inflammatory mediators in arthritis
Janz, Siegfried, M.D.	Professor	Pathology (Immunology, MSTP)	Resource	Mouse models of human B cell and plasma cell neoplasms
Lubaroff, David, Ph.D.	Professor	Urology (Immunology, Microbiology)	Resource	Tumor immunology and immunotherapy
Schlievert, Patrick, Ph.D.	Professor and Head	Microbiology (Immunology, Internal Medicine, MSTP)	Resource	The Schlievert laboratory studies the interaction of gram positive bacteria and their immune modulating virulence factors with the human immune system