

**Table 2. Participating Faculty Members**

OMB Number 0925-0001 (Rev. 8/12 Approved Through 8/31/2015)

<b>Name/Degree(s)</b>	<b>Rank</b>	<b>Training Designation</b>	<b>Primary (&amp; Secondary) Appointment(s)</b>	<b>Program Participation</b>	<b>Research Interest</b>
Abel, E. Dale, MD, PhD	Professor	Mentor	Internal Medicine (Biochemistry, Molecular & Cellular Biology)	Rotation Mentor, Director Fraternal Order of Eagles Diabetes Research Center	Elucidating the molecular mechanisms of diabetes
Abramoff, Michael, MD, PhD	Professor	Mentor	Ophthalmology & Visual Sciences (Biomedical Engineering)		Massive, large-scale detection and diagnosis of retinal disease glaucoma
Adams, Christopher, MD, PhD	Associate Professor	Mentor	Internal Medicine (Molecular Physiology & Biophysics, Genetics, Molecular & Cellular Biology)	Dissertation Mentor	Pathogenesis and treatment of skeletal muscle atrophy
Allen, LeeAnn, PhD	Professor	Mentor	Internal Medicine (Microbiology, Immunology, Molecular & Cellular Biology)	Dissertation Mentor, Admissions Committee	Phagocyte biology with a particular focus on interactions of pathogenic bacteria with macrophages and neutrophils
Amendt, Brad, PhD	Professor	Mentor	Anatomy & Cell Biology		Molecular mechanisms of human craniofacial anomalies
Anderson, Mark, MD, PhD	Professor	Mentor	Internal Medicine (Molecular Physiology & Biophysics)	Dissertation Mentor	Understanding the biology behind cardiac arrhythmias
Anderson, Michael, PhD	Associate Professor	Mentor	Molecular Physiology & Biophysics (Genetics, Neuroscience)	Dissertation Mentor	Physiological properties of the eye and the pathophysiological mechanisms underlying a variety of complex eye diseases
Andreasen, Nancy, MD, PhD	Professor	Mentor	Psychiatry (Neuroscience, Translational Biomedicine)		Imaging studies of the major psychoses
Badovinac, Vladimir, PhD	Associate Professor	New Mentor	Pathology (Immunology)		Generation and manipulation of memory CD8 T cell responses
Baker, Sheila, PhD	Assistant Professor	New Mentor	Biochemistry (Ophthalmology & Visual Sciences, Molecular & Cellular Biology)		Cellular and molecular mechanisms of membrane protein trafficking in vertebrate photoreceptors

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Bassuk, Alex, MD, PhD	Associate Professor	Mentor	Pediatrics (Genetics, Neuroscience, Molecular & Cellular Biology)	Rotation Mentor	Basic mechanisms of normal and disordered development of the nervous system
Benson, Christopher, MD	Associate Professor	New Mentor	Internal Medicine (Neuroscience, Pharmacology, Translational Biomedicine)	Rotation Mentor, Co-Director SUMR Program	Molecular mechanisms of cardiac sensatioin
Bishop, Gail, PhD	Professor	Mentor	Microbiology (Internal Medicine, Immunology, Molecular & Cellular Biology, Translational Biomedicine)	Dissertation Mentor	Analysis of molecular mechanisms of regulation of B lymphocyte activation
Boles, Blaise, PhD	Assistant Professor	New Mentor	Microbiology		Understanding the microbial ecology of humans
Bonthius, Daniel, MD, PhD	Professor	Mentor	Pediatrics (Neuroscience, Molecular & Cellular Biology)	Admissions Committee, Integrating Discovery & Educational Activities Committee	Biological mechanisms to underlying neurological birth defects
Brenner, Charles, PhD	Professor and Head	Mentor	Biochemistry (Internal Medicine, Genetics)	Dissertation Mentor, Biochemistry Department Head, Faculty Advisor to Seminar Committee	Tumor suppressor genes and metabolism
Burnett, Andrean, PhD	Assistant Professor	New Mentor	Pathology (Free Radical & Radiation Biology, Human Toxicology)	Rotation Mentor	Signaling pathways and oxidative stress in cancer progression
Campbell, Kevin, PhD	Professor and Head	Mentor	Molecular Physiology & Biophysics (Neurology, Internal Medicine, Translational Biomedicine)	Dissertation Mentor, Molecular Physiology & Biophysics Department Head	Molecular pathogenesis of muscular dystrophy, molecular studies of dystroglycan complex and voltage-gated Ca <sup>2+</sup> channels
Carter, Brent, MD	Professor	Mentor	Internal Medicine (Free Radical & Radiation Biology, Human Toxicology)		Pulmonary fibrosis, asthma, and acute lung injury
Chauhan, Anil, PhD	Associate Professor	New Mentor	Internal Medicine (Molecular & Cellular Biology)		Vascular inflammatory diseases: stroke and atherosclerosis

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Chen, Songhai, PhD	Associate Professor	Mentor	Pharmacology (Internal Medicine, Molecular & Cellular Biology)		G protein-dependent signaling mechanisms of leukocyte migration and tumor metastasis
Chrischilles, Betsy, PhD	Professor	Mentor	Epidemiology (Translational Biomedicine)	Dissertation Mentor	Economic evaluation of chronic disease therapies; medication use and effects among the elderly
Colgan, John, PhD	Associate Professor	Mentor	Internal Medicine (Anatomy & Cell Biology, Molecular & Cellular Biology, Immunology)		Signal transduction pathways that control of the development and function of lymphocytes
Cornell, Robert, PhD	Associate Professor	Mentor	Anatomy & Cell Biology (Genetics, Molecular & Cellular Biology, Neuroscience)		Understanding gene regulatory networks that operated during embryonic development
Cullen, Joseph, MD	Professor	Mentor	Surgery (Free Radical & Radiation Biology)		Role of reactive oxygen species in pancreatic cancer
Davies, Brandon, PhD	Assistant Professor	New Mentor	Biochemistry (Molecular & Cellular Biology)		Role of endothelial cells in lipid metabolism
DeMali, Kris, PhD	Associate Professor	Mentor	Biochemistry (Molecular & Cellular Biology)	Recruitment Committee, Integrating Discovery & Educational Activities Committee, Co-Director SUMR Program	Molecular basis of cell adhesion and its regulation by signaling and cytoskeletal proteins
Domann, Frederick, PhD	Professor	Mentor	Radiation Oncology (Molecular & Cellular Biology, Free Radical & Radiation Biology, Human Toxicology)	Dissertation Mentor, Molecular & Cellular Biology Program Director	Epigenetic mechanisms of gene silencing in cancer
Dupuy, Adam, PhD	Associate Professor	Mentor	Anatomy & Cell Biology (Genetics, Molecular & Cellular Biology)	Dissertation Mentor, Admissions Committee	Developing new mouse models of human cancer using the Sleeping Beauty transposon system
Eberl, Daniel, PhD	Professor	Mentor	Biology (Genetics, Neuroscience)	Genetics PhD Program Director	Molecular and cellular mechanisms of hearing in Drosophila

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Ellermeier, Craig, PhD	Associate Professor	Mentor	Microbiology (Genetics)	Admissions Committee	Role of Cell envelope stress response in <i>B. subtilis</i> and <i>C. difficile</i>
Engelhardt, John, PhD	Professor and Head	Mentor	Anatomy & Cell Biology (Internal Medicine, Informatics, Molecular & Cellular Biology, Free Radical & Radiation Biology)	Rotation Mentor, Dissertation Mentor, Executive Committee, Anatomy & Cell Biology Department Head	Molecular/cellular biology and gene therapy of inherited and environmental diseases
Faraci, Frank, PhD	Professor	Mentor	Internal Medicine (Pharmacology)		Role of endothelial NO synthase in cerebral circulation
Fingert, John, MD, PhD	Associate Professor	New Mentor	Ophthalmology & Visual Sciences (Genetics, Molecular & Cellular Biology)	Dissertation Mentor, Admissions Committee	Molecular genetics of glaucoma and other inherited eye diseases
Fisher, Rory, PhD	Professor	Mentor	Pharmacology (Internal Medicine, Molecular & Cellular Biology)		Signal transduction of G protein-coupled receptors and RGS proteins
Frank, C. Andrew, PhD	Assistant Professor	New Mentor	Anatomy & Cell Biology (Genetics, Molecular & Cellular Biology, Neuroscience)		Synaptic homeostasis at the <i>Drosophila</i> neuromuscular junction
Fuentes, Ernesto, PhD	Associate Professor	Mentor	Biochemistry (Molecular & Cellular Biology)	Rotation Mentor, Admissions Committee, Recruitment Committee	Energetics and dynamics of protein-protein interactions; NMR; signal transduction pathways in cancer
Geyer, Pamela, PhD	Professor	Mentor	Biochemistry (Obstetrics & Gynecology, Genetics, Molecular & Cellular Biology)	MSTP Co-Director, Rotation Mentor, Executive Committee, Integrating Discovery & Educational Activities Committee, Recruitment Committee, M1G/M2G Advisor	Chromosome organization and gene expression
Giangrande, Paloma, PhD	Associate Professor	Mentor	Internal Medicine (Molecular & Cellular Biology, Free Radical & Radiation Biology)	Admissions Committee	RNA-based therapies for cancer and cardiovascular disease

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Goel, Apollina, PhD	Assistant Professor	Mentor	Radiation Oncology (Free Radical & Radiation Biology, Molecular & Cellular Biology)		Chemo-radiotherapy for hematological malignancies; understanding and circumventing therapy-resistance in multiple myeloma
Goswami, Prabhat, PhD	Professor	Mentor	Radiation Oncology (Free Radical & Radiation Biology, Molecular & Cellular Biology, Human Toxicology)		Intracellular redox-state in regulating the mammalian cell cycle and intracellular signaling networks
Green, Steven, PhD	Professor	Mentor	Biology (Molecular & Cellular Biology, Neuroscience)		Signal transduction, neuronal programmed cell death, signal transduction for neurotrophic stimuli
Grobe, Justin, PhD	Assistant Professor	New Mentor	Pharmacology (Molecular & Cellular Biology, Neuroscience)	Dissertation Mentor	Central mechanisms of blood pressure and metabolic rate control
Grosland, Nicole, PhD	Associate Professor	Mentor	Biomedical Engineering	Dissertation Mentor	Articular joint contact mechanics; total joint arthroplasty; voxel-based finite element models
Grumbach, Isabella, MD, PhD	Associate Professor	New Mentor	Internal Medicine (Molecular & Cellular Biology)	Dissertation Mentor	Vascular smooth muscle and endothelial biology in hypertension and vascular injury
Habelhah, Hasem, PhD	Associate Professor	Mentor	Pathology (Molecular & Cellular Biology)		Role of TRAF2 phosphorylation in NF- $\kappa$ B activation and cancer cell resistance to apoptosis
Hammond, Donna, PhD	Professor	Mentor	Anesthesia (Pharmacology, Neuroscience)	Dissertation Mentor, Executive Associate Dean	Central nervous system mechanisms of pain and analgesia
Harty, John, PhD	Professor	Mentor	Microbiology (Immunology)	Dissertation Mentor, Admissions Committee	Immunobiology of T cell responses to pathogens
Henry, Michael, PhD	Associate Professor	Mentor	Molecular Physiology & Biophysics	Dissertation Mentor	Molecular and cellular biology underlying cancer metastasis
Hirsch, Raphael, MD	Professor and Head	Mentor	Pediatrics (Immunology)	Pediatrics Department Head	Inflammatory mediators in arthritis

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Hoffman, Eric, PhD	Professor	Mentor	Radiology (Biomedical Engineering, Internal Medicine, Informatics, Translational Biomedicine)	Dissertation Mentor	Cardiac mechanics; quantitative assessment of cardiopulmonary physiology via dynamic, volumetric CT; emerging therapies for lung disease; airway reactivity
Horswill, Alex, PhD	Associate Professor	Mentor	Microbiology	Dissertation Mentor, Recruitment Committee	Peptide quorum sensing system of Staphylococcus aureus
Houston, Douglas, PhD	Associate Professor	Mentor	Biology (Genetics, Molecular & Cellular Biology, Neuroscience)		Maternal transcription factor and signaling pathways in vertebrate development
Houtman, Jon, PhD	Associate Professor	Mentor	Microbiology (Internal Medicine, Molecular & Cellular Biology, Immunology)	Dissertation Mentor, Recruitment Committee, Executive Committee	Role of adaptor proteins in T Cell activation
Irani, Kaikobad, MD	Professor	New Mentor	Internal Medicine (Molecular & Cellular Biology, Free Radical & Radiation Biology)		Molecular basis for vascular function and dysfunction and redox biology
Janz, Siegfried, MD	Professor	Mentor	Pathology (Immunology)		Mouse models of human B cell and plasma cell neoplasms
Kaboli, Peter, MD	Professor	Mentor	Internal Medicine (Epidemiology)	Dissertation Mentor	Health services research, evaluation of medication appropriateness, prevention of adverse drug events
Karandikar, Nitin, MD, PhD	Professor and Head	Mentor	Pathology (Immunology, Molecular & Cellular Biology)	Executive Committee, Pathology Department Head	Immune interactions underlying the pathogenesis and regulation of immune-based diseases
Kirby, John, PhD	Professor	Mentor	Microbiology (Genetics, Informatics)		Signal transduction in bacteria
Kitamoto, Toshihiro, PhD	Associate Professor	Mentor	Anesthesia (Neurology, Pharmacology, Genetics, Neuroscience)		Genetics of complex behavior

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Klingelhutz, AI, PhD	Associate Professor	Mentor	Microbiology (Genetics, Informatics, Molecular & Cellular Biology, Free Radical & Radiation Biology)		Mechanisms of cellular immortalization and transformation by human papillomavirus
Kohen, Amnon, PhD	Professor	Mentor	Chemistry (Molecular & Cellular Biology)	Dissertation Mentor, Admissions Committee	Chemical catalysis with biological systems (enzymes), using tools of organic and physical chemistry
Kwitek, Anne, PhD	Associate Professor	Mentor	Pharmacology (Internal Medicine, Genetics)		Genetics of hypertension, diabetes and obesity using both animal models and human populations
Lee, Amy, PhD	Associate Professor	Mentor	Molecular Physiology & Biophysics (Otolaryngology-Head & Neck Surgery, Neuroscience)	Rotation Mentor, Assistant Dean Scientific Affairs	Voltage gated Ca <sup>2+</sup> channels
Lee, Gloria, PhD	Professor	Mentor	Internal Medicine (Molecular & Cellular Biology, Neuroscience)	Dissertation Mentor	Structure and function of the neuronal cytoskeleton and its role in neurodegenerative diseases
Legge, Kevin, PhD	Associate Professor	Mentor	Pathology (Microbiology, Immunology)	Rotation Mentor	Dendritic Cell Immunobiology and Pulmonary Immunity
Lehmler, Hans- Joachim, PhD	Associate Professor	Mentor	Occupational & Environmental Health (Human Toxicology)		Disposition and metabolism of chiral environmental contaminants
Lentz, Steven, MD, PhD	Professor	Mentor	Internal Medicine (Biomedical Engineering, Molecular & Cellular Biology, Translational Biomedicine)	MSTP Director, Dissertation Mentor, Executive Committee, Integrating Discovery & Educational Activities Committee, M6G Advisor	Mechanisms of thrombosis and vascular disease
Leslie, Kimberly, MD	Professor and Head	Mentor	Obstetrics & Gynecology (Molecular & Cellular Biology)	Obstetrics & Gynecology Department Head	Molecular biology of hormone action and hormone receptors in reproductive tissues

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Lin, Fang, MD, PhD	Assistant Professor	New Mentor	Anatomy & Cell Biology (Genetics, Molecular & Cellular Biology)		G protein signaling in zebrafish embryogenesis
Ludewig, Gabriele, PhD	Professor	Mentor	Occupational & Environmental Health (Human Toxicology)		Environmental and genetic toxicology
Lynch, Charles, MD, PhD	Professor	Mentor	Epidemiology (Pathology)		Population-based research that involves a cancer surveillance program (Iowa Cancer Registry) and cancer epidemiology, cancer pathology, and environmental epidemiology
Mahajan, Vinit, MD, PhD	Assistant Professor	New Mentor	Ophthalmology & Visual Sciences (Molecular & Cellular Biology)		Vitreoretinal disease
Maury, Wendy, PhD	Professor	Mentor	Microbiology (Molecular & Cellular Biology)	Admissions Committee, Executive Committee	Regulation of lentiviral cell tropism
McCarter, Linda, PhD	Professor	Mentor	Microbiology		Signal transduction and regulation of gene expression in bacteria
McCray, Paul, MD	Professor	Mentor	Pediatrics (Microbiology, Genetics, Informatics, Human Toxicology, Molecular & Cellular Biology, Translational Biomedicine)	Rotation Mentor	Development of gene therapy for genetic diseases; pathophysiology of cystic fibrosis; cloning and characterization of antimicrobial peptide genes
McNamara, James, PhD	Associate Professor	New Mentor	Internal Medicine (Molecular & Cellular Biology, Neuroscience)		RNA-based technologies to understand and treat disorders of the nervous system
Miller, Francis, MD	Professor	Mentor	Internal Medicine (Anatomy & Cell Biology, Free Radical & Radiation Biology)	Dissertation Mentor, Admissions Committee	Role of reactive oxygen species in vascular disease
Morita, Craig, MD, PhD	Associate Professor	Mentor	Internal Medicine (Immunology)		Nonpeptide antigen recognition by gamma-delta T cells



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Moye-Rowley, Scott, PhD	Professor	Mentor	Molecular Physiology & Biophysics (Genetics, Molecular & Cellular Biology)		Transcriptional control of oxidative stress tolerance; eukaryotic multidrug resistance
Murray, Jeffrey, MD	Professor	Mentor	Pediatrics (Biology, Epidemiology, Anatomy & Cell Biology, Genetics, Translational Biomedicine)	Dissertation Mentor	Human molecular and developmental genetics
Narayanan, Nandakumar, MD, PhD	Assistant Professor	New Mentor	Neurology (Neuroscience)	Rotation Mentor	Cognitive dysfunction in Parkinson's disease
Nauseef, William, MD	Professor	Mentor	Internal Medicine (Microbiology, Immunology)		Human polymorphonuclear neutrophil metabolism and function
Nopoulos, Peg, MD	Professor	Mentor	Psychiatry (Neuroscience)	Dissertation Mentor, Executive Committee	Brain structure/function relationships using MRI and cognitive/behavioral assessment
Norian, Lyse, PhD	Assistant Professor	New Mentor	Urology (Immunology)	Admissions Committee	Cell and molecular biology of tumor-derived immune dysfunction
O'Dorisio, Sue, MD, PhD	Professor	Mentor	Pediatrics (Neuroscience, Translational Biomedicine)	Dissertation Mentor	Nervous system tumors of childhood
Paulsen, Jane, PhD	Professor	Mentor	Psychiatry (Neurology, Neuroscience)		Neuropsychology
Peek-Asa, Corinne, PhD	Professor	Mentor	Occupational & Environmental Health (Epidemiology, Translational Biomedicine)	Dissertation Mentor	Workplace violence, childhood injuries, and injuries in the elderly
Perlman, Stanley, MD, PhD	Professor	Mentor	Microbiology (Immunology, Neuroscience, Translational Biomedicine)	Dissertation Mentor	Pathogenesis of virus-induced demyelination

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Pieper, Andrew, MD, PhD	Associate Professor	New Mentor	Psychiatry (Free Radical & Radiation Biology, Human Toxicology, Molecular & Cellular Biology, Molecular Physiology & Biophysics, Neuroscience)	Dissertation Mentor	Discovery of new treatments for neuropsychiatric disease
Piper, Robert, PhD	Professor	Mentor	Molecular Physiology & Biophysics (Internal Medicine, Genetics)	Dissertation Mentor	Mechanisms governing the movement of proteins in eukaryotes
Potash, James, MD	Professor and Head	Mentor	Psychiatry (Genetics, Neuroscience)	Dissertation Mentor, Psychiatry Department Head	Bipolar disorder, depression, epigenetics, genetics, methylation, mood, sequencing
Price, David, PhD	Professor	Mentor	Biochemistry (Molecular & Cellular Biology)	Dissertation Mentor	Discovering connections between transcription elongation and RNA processing , HIV replication and cancer
Pufall, Miles, PhD	Assistant Professor	New Mentor	Biochemistry (Molecular & Cellular Biology)	Admissions Committee	Fine-tuning protein function
Quelle, Dawn, PhD	Associate Professor	Mentor	Pharmacology (Molecular & Cellular Biology)	Dissertation Mentor, Admissions Committee	Molecular mechanisms of growth control; tumor suppressors; cyclins; cyclin-dependent kinases
Raghavan, Madhavan, PhD	Associate Professor	Mentor	Biomedical Engineering		Biomechanics of biological and engineered soft tissues and swallowing
Rahmouni, Kamal, PhD	Associate Professor	Mentor	Pharmacology (Internal Medicine, Neuroscience, Molecular & Cellular Biology)	Dissertation Mentor	Molecular mechanisms of energy homeostasis and autonomic cardiovascular function
Reinhardt, Joseph, PhD	Professor and Head	Mentor	Biomedical Engineering (Informatics)	Biomedical Engineering Department Head	Medical imaging, image and signal processing
Richerson, George, MD, PhD	Professor and Head	Mentor	Neurology (Molecular Physiology & Biophysics, Neuroscience, Molecular & Cellular Biology)	Dissertation Mentor, Executive Comimttee, Neurology Department Head	Serotonin effects on brain function, GABA mechanisms in epilepsy

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Robertson, Janice, PhD	Assistant Professor	New Mentor	Molecular Physiology & Biophysics		Energetics of membrane protein assembly
Robertson, Larry, PhD	Professor	Mentor	Occupational & Environmental Health (Free Radical & Radiation Biology, Human Toxicology)	Human Toxicology Program Director	Mechanisms of toxicity of environmental contaminants
Romitti, Paul, PhD	Professor	Mentor	Epidemiology (Human Toxicology)		Epidemiology of congenital and inherited disorders, reproductive molecular epidemiology
Rosenthal, Gary, MD	Professor and Interim Head	Mentor	Internal Medicine (Epidemiology, Translational Biomedicine)	Executive Committee, Internal Medicine Department Interim Head, CTSA Director	Health care quality assessment, provider performance, organizational determinants of patient outcomes, role of the Department of Veterans Affairs in the US health care delivery system
Russo, Andrew, PhD	Professor	Mentor	Molecular Physiology & Biophysics (Genetics, Molecular & Cellular Biology, Neuroscience, Translational Biomedicine)	Dissertation Mentor, Integrating Discovery & Educational Activities Committee	Control of gene expression in the neural crest and neurons
Rutkowski, D. Thomas, PhD	Associate Professor	Mentor	Anatomy & Cell Biology (Molecular & Cellular Biology)	Integrating Discovery & Educational Activities Committee	Mechanisms of adaptation to chronic cellular stresses in physiology and disease
Scheetz, Todd, PhD	Associate Professor	Mentor	Ophthalmology & Visual Sciences (Biomedical Eng, Genetics, Informatics)	Rotation Mentor	Bioinformatics, genome-scale analysis of sequences and expression data
Schlievert, Patrick, PhD	Professor and Head	Mentor	Microbiology (Internal Medicine, Immunology)	Microbiology Department Head	Molecular pathogenesis, drug discovery, and immunology; <i>Staphylococcus aureus</i> , <i>Streptococci</i> and <i>Enterococci</i>

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Schultz, Michael, PhD	Associate Professor	New Mentor	Radiology (Internal Medicine, Radiation Oncology, Free Radical & Radiation Biology, Human Toxicology)		Development of synthetic-bioactive molecular targeting vectors for imaging and therapy of cancer
Segaloff, Deborah, PhD	Professor	Mentor	Molecular Physiology & Biophysics		Signaling by G protein-coupled receptors; reproductive endocrinology
Shea, Madeline, PhD	Professor	Mentor	Biochemistry (Translational Biomedicine)	Fostering Undergraduate Talent-Uniting Research and Education in Biomedicine Program Director	Regulatory protein interactions in signal transduction, allosteric mechanism of cooperative calcium binding to calmodulin
Sheffield, Val, MD, PhD	Professor	Mentor	Pediatrics (Genetics, Informatics, Molecular & Cellular Biology)	Dissertation Mentor	Molecular genetics of human hereditary disease
Sigmund, Curt, PhD	Professor and Head	Mentor	Pharmacology (Internal Medicine, Molecular Physiology & Biophysics, Molecular & Cellular Biology, Genetics, Informatics, Neuroscience, Translational Biomedicine)	Dissertation Mentor, Pharmacology Department Head	Molecular genetics and molecular biology of the renin-angiotensin system and hypertension
Sluka, Kathleen, PhD	Professor	Mentor	Physical Therapy (Neuroscience, Molecular & Cellular Biology)	Dissertation Mentor	Neurobiology of pain and pain inhibition
Smith, Richard, MD	Professor	Mentor	Otolaryngology (Internal Medicine, Genetics, Immunology, Informatics, Molecular & Cellular Biology, Molecular Physiology & Biophysics, Neuroscience, Translational Biomedicine)	Dissertation Mentor	Inherited hearing impairment
Snetselaar, Linda, RD, PhD	Professor	Mentor	Epidemiology (Internal Medicine)		Nutritional epidemiology, nutrition intervention clinical trials

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Snyder, Peter, MD	Professor	Mentor	Internal Medicine (Molecular Physiology & Biophysics, Molecular & Cellular Biology)	Rotation Mentor	Structure and function of the epithelial sodium channel and its role in hypertension and other disorders of sodium homeostasis
Spies, Ashley, PhD	Assistant Professor	Mentor	Biochemistry (Medicinal & Natural Products Chemistry)		Fundamental properties of protein-ligand interactions
Spies, Maria, PhD	Associate Professor	Mentor	Biochemistry		Single-molecule biochemistry of DNA Repair machines
Spitz, Douglas, PhD	Professor	Mentor	Radiation Oncology (Free Radical & Radiation Biology, Human Toxicology)	Dissertation Mentor, Free Radical & Radiation Biology Program Director, Executive Committee	Nitric oxide toxicology, glucose deprivation-induced cytotoxicity in human tumor cells
Stapleton, Jack, MD	Professor	Mentor	Internal Medicine (Molecular & Cellular Biology, Microbiology, Translational Biomedicine)	Dissertation Mentor	Epidemiology and effects of co-infection of hepatitis C virus (HCV), human GB virus type C and HIV
Stipp, Chris, PhD	Associate Professor	Mentor	Biology (Molecular Physiology & Biophysics, Neuroscience)		Cellular and molecular analysis of the nervous system
Stoltz, David, MD, PhD	Associate Professor	New Mentor	Internal Medicine (Biomedical Engineering, Molecular Physiology & Biophysics)	Dissertation Mentor, Admissions Committee, Integrating Discovery & Educational Activities Committee, Course Director	Pathogenesis of cystic fibrosis related airway infections
Stone, Edwin, MD, PhD	Professor	Mentor	Ophthalmology & Visual Sciences (Genetics, Informatics, Translational Biomedicine)	Dissertation Mentor	Molecular genetics of inherited eye diseases
Strack, Stefan, PhD	Professor	Mentor	Pharmacology (Molecular & Cellular Biology, Neuroscience)	Dissertation Mentor	Protein phosphatases in neuronal signal transduction

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Sutterwala, Fayyaz, MD, PhD	Associate Professor	Mentor	Internal Medicine (Immunology, Molecular & Cellular Biology)	Dissertation Mentor, Admissions Committee, Recruitment Committee	Biology of the NOD-like receptor family in infection and inflammation
Tan, Kai, PhD	Associate Professor	New Mentor	Internal Medicine (Biomedical Engineering, Genetics, Informatics)	Rotation Mentor	Gene regulatory networks and molecular pathways in human diseases
Taylor, Eric, PhD	Assistant Professor	New Mentor	Biochemistry (Molecular & Cellular Biology)	Dissertation Mentor	Molecular mechanisms regulating mitochondrial function in disease
Tootle, Tina, PhD	Assistant Professor	Mentor	Anatomy & Cell Biology (Genetics, Molecular & Cellular Biology)		Molecular mechanisms of prostaglandin signaling
Torner, Jim, PhD	Professor and Head	Mentor	Epidemiology (Informatics, Translational Biomedicine)	Dissertation Mentor, Epidemiology Department Head	Design and analysis of clinical trials and prognostic factors
Tranel, Daniel, PhD	Professor	Mentor	Neurology (Neuroscience, Informatics)	Dissertation Mentor, Executive Committee, Neuroscience Program Director, Assoc Dean Grad & Postdoc Studies	Systems/behavioral neuroanatomical substrates of complex behavior human learning and memory
Usachev, Yuriy, PhD	Associate Professor	Mentor	Pharmacology (Neuroscience)	Admissions Committee	Ca <sup>2+</sup> signaling and control of pain-conducting pathways
Varga, Steve, PhD	Associate Professor	Mentor	Microbiology (Immunology)	Immunology Program Director	Viral immunology and immunopathology
Vyas, Yatin, MD, MBBS	Professor	Mentor	Pediatrics (Immunology, Molecular & Cellular Biology)		Epigenetic regulation of the transcription Program of Th1-network genes by WASP
Wallace, Robert, MD	Professor	Mentor	Epidemiology (Internal Medicine, Translational Biomedicine)	Dissertation Mentor	Epidemiology of aging, cancer epidemiology
Wallrath, Lori, PhD	Professor	Mentor	Biochemistry (Genetics, Molecular & Cellular Biology)		Eukaryotic chromatin structure and gene expression; molecular mechanisms of gene silencing in Drosophila

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Washington, Todd, PhD	Associate Professor	Mentor	Biochemistry (Free Radical & Radiation Biology, Molecular & Cellular Biology)	Dissertation Mentor, Admissions Committee	Mechanisms of enzymes involved in DNA replication and DNA repair
Weeks, Daniel, PhD	Professor	Mentor	Biochemistry (Molecular & Cellular Biology)	Dissertation Mentor	Molecular mechanisms of early embryogenesis and cardiogenesis
Weigel, Ron, MD, PhD	Professor and Head	Mentor	Surgery (Biochemistry, Molecular Physiology & Biophysics)	Dissertation Mentor, Surgery Department Head	Determining mechanisms of hormone response in breast cancer
Weiner, George, MD	Professor	Mentor	Internal Medicine (Immunology, Informatics, Translational Biomedicine)	Dissertation Mentor, Executive Committee, Cancer Center Director	Immune response to lymphoma; bispecific therapeutic antibodies.
Weiss, Jerrold, PhD	Professor	Mentor	Internal Medicine (Microbiology, Immunology, Translational Biomedicine, Human Toxicology)	Rotation Mentor, Admissions Committee	Innate mammalian antibacterial defense mechanisms
Welsh, Michael, MD	Professor	Mentor	Internal Medicine (Molecular Physiology & Biophysics, Molecular & Cellular Biology, Neuroscience, Genetics, Informatics, Translational Biomedicine)	Dissertation Mentor, Executive Committee	Biology of cystic fibrosis; structure and function of ion channels; pathogenesis of lung disease
Wemmie, John, MD, PhD	Professor	Mentor	Psychiatry (Molecular Physiology & Biophysics, Neuroscience)	Dissertation Mentor	Genetic manipulation in mice to study the effects of Acid Sensing Ion Channels (ASICs) on behavior
Willour, Virginia, PhD	Associate Professor	New Mentor	Psychiatry (Genetics, Neuroscience)	Dissertation Mentor	Identifying genetic and epigenetic risk factors for suicidal behavior
Wilson, Mary, MD	Professor	Mentor	Internal Medicine (Microbiology, Epidemiology, Immunology, Molecular & Cellular Biology, Genetics, Translational Biomedicine)	Dissertation Mentor	Immunobiology, genetics, and molecular biology of visceral leishmaniasis in murine and human hosts