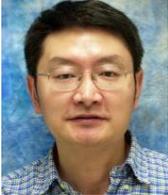


RECOMMENDED BASIC SCIENCE MENTORING FACULTY, School of Medicine

Bioinformatics	
	<p>Loren Gragert, PhD, Assistant Professor, Pathology and Laboratory Medicine</p> <p>Research Emphasis: Population genetics and informatics for transplantation.</p>
	<p>Tianhua "Tim" Niu, PhD, Research Assistant Professor, Biochemistry and Molecular Biology</p> <p>Research Emphasis: Population genetics, computational statistics, transcriptomics and bioinformatics.</p>
Biology of Aging	
	<p>Sangkyu Kim, PhD, Assistant Professor, Medicine - Center for Aging</p> <p>Research Emphasis: Building reliable predictive models of healthy aging and survival using various health data.</p>
Cancer Biology	
	<p>Matthew Burow, PhD, Associate Professor, Department of Medicine, Section of Hematology and Oncology</p> <p>Research Emphasis: Discovery of novel therapeutic targets and models for breast cancer</p>
	<p>Srikanta Dash, PhD, Professor, Pathology and Laboratory Medicine</p> <p>Research Emphasis: Biomarker development for early detection of liver cancer, especially in patients with cirrhosis.</p>
	<p>Wu-Min Deng, PhD, Professor, Biochemistry and Molecular biology</p> <p>Research Emphasis: How disrupting interactions between cells and the cell-tissue microenvironment leads to tumorigenesis in the <i>Drosophila</i> model system.</p>
	<p>Sean Lee, PhD, Associate Professor, Pathology and Laboratory Medicine</p> <p>Research Emphasis: Desmoplastic small round cell tumors; tumor metabolism</p>

	<p>Hua Lu, MB, PhD, Professor and Chair, Biochemistry and Molecular Biology</p> <p>Research Emphasis: Role of p53 and MDM2 in cancer</p>
	<p>Arthur Lustig, PhD, Professor, Biochemistry and Molecular Biology</p> <p>Research Emphasis: Chromosome structure and function</p>
	<p>Heather Machado, PhD, Assistant Professor, Biochemistry and Molecular Biology</p> <p>Research Emphasis: Breast development and breast cancer progression</p>
	<p>Tong Wu, MD, PhD, Professor, Pathology and Laboratory Medicine</p> <p>Research Emphasis: The molecular mechanisms of inflammation and carcinogenesis, with a special emphasis on the pathogenesis of liver cancer and inflammatory liver diseases</p>
	<p>Zongbing You, MD, PhD, Associate Professor, Structural and Cellular Biology</p> <p>Research Emphasis: Inflammation and prostate cancer</p>
	<p>Qiuyang Zhang, PhD, Assistant Professor, Structural and Cellular Biology</p> <p>Research Emphasis: Aging-related inflammation and prostate cancer</p>
<p>Cardiovascular Disease</p>	
	<p>Andrei V. Derbenev, PhD, Associate Professor of Physiology</p> <p>Research Emphasis: Central control of cardiovascular function, (Neuroscience, Synaptic organization, Hypertension)</p>
	<p>Olan Jackson-Weaver, PhD, Assistant Professor, Surgery and Physiology</p> <p>Research Emphasis: Regulatory mechanisms of the circulatory system, including endothelial Ca²⁺ signaling. Endothelial cell damage during shock and trauma.</p>

Cell Biology	
	<p>Hong Liu, PhD, Assistant Professor, Biochemistry and Molecular Biology</p> <p>Research Emphasis: Regulation of chromosome segregation and stability</p>
Diabetes and Obesity	
	<p>Hongju Wu, PhD, Associate Professor, Medicine and Physiology</p> <p>Research Emphasis: Pancreatic beta cell regeneration; regulation of glucagon secretion</p>
	<p>Andrea Zsombok, PhD, Associate Professor of Physiology</p> <p>Research Emphasis: Central regulation of autonomic functions in diabetes and obesity. (Neuroscience, Diabetes, Autonomic control of organ functions)</p>
Drug/Vaccine Delivery	
	<p>Diane A. Blake, PhD, Professor of Biochemistry and Molecular Biology, Adjunct in Ophthalmology</p> <p>Research Emphasis: Drug delivery for ocular diseases, especially glaucoma</p>
	<p>Louise Braud Lawson, PhD, Microbiology and Immunology, Faculty mentor, Bioinnovation Program</p> <p>Research Emphasis: Tailored formulations for drug and vaccine delivery</p>
Infection and Inflammation	
	<p>Dahlene Fusco, MD PhD, Assistant Professor of Medicine, Adjunct in Tropical Medicine</p> <p>Research Emphasis: How type I interferons impair viruses and how variability in host response influences viral pathology.</p>
	<p>Jay K. Kolls, MD, Professor of Medicine and Pediatrics</p> <p>Research Emphasis: Microbial- host interface in the gut and lung and mechanisms of primary immunodeficiency</p>

	<p>Elizabeth Norton, PhD, Assistant Professor, Microbiology and Immunology</p> <p>Research Emphasis: Mucosal immunology; vaccines; therapeutics for inflammatory bowel disease</p>
	<p>James E Robinson, MD Professor of Pediatrics; Section of Infectious Disease</p> <p>Research Emphasis: Antibody responses to Cytomegalovirus, Dengue virus, and Lassa Fever Virus</p>
	<p>Chad Steele, PhD, Professor and Chair, Microbiology and Immunology</p> <p>Research Emphasis: Immune responses to lung pathogens; immunopathology in asthma associated with fungal exposure</p>
<p>Gastroenterology</p>	
	<p>Solange Abdunour-Nakhoul, PhD, Associate Professor, Medicine (Adjunct Physiology)</p> <p>Research Emphasis: Cellular and molecular physiology of the esophagus</p>
<p>Lung Disease</p>	
	<p>Gilbert Morris, PhD, Associate Professor, Pathology and Laboratory Medicine</p> <p>Research Emphasis: Animal models of environmental lung disease</p>
	<p>Chad Steele, PhD, Professor and Chair, Microbiology and Immunology</p> <p>Research Emphasis: Immune responses to lung pathogens; immunopathology in asthma associated with fungal exposure</p>
<p>Neuroscience</p>	
	<p>Andrei V. Derbenev, PhD, Associate Professor of Physiology</p> <p>Research Emphasis: Neuroscience, Synaptic organization, Hypertension</p>

	<p>Andrea Zsombok, PhD, Associate Professor of Physiology</p> <p>Research Emphasis: Neuroscience, Diabetes, Autonomic control of organ functions</p>
<p>Regenerative Medicine</p>	
	<p>Mimi Sammarco, PhD, Assistant Professor, Surgery</p> <p>Research Emphasis: Effect of oxygen and metabolic switching on bone and soft tissue regeneration after amputation.</p>
<p>Renal Develop & Disease</p>	
	<p>Hongbing Liu, PhD, Assistant Professor, Pediatrics Nephrology</p> <p>Research Emphasis: Roles of histone deacetylases in kidney formation and kidney diseases</p>
	<p>L. Gabriel Navar, PhD, Professor and Chair, Physiology; Director, Hypertension and Renal Center of Excellence</p> <p>Research Emphasis:, Renal Hemodynamics and Physiology, Experimental Hypertension, Renin-angiotensin System</p>
	<p>Ryosuke Sato, PhD, Assistant Professor, Physiology and Hypertension and Renal Center of Excellence</p> <p>Research Emphasis: Molecular mechanisms underlying RAS regulation (Molecular Biology, Physiology, Organoids)</p>