

## Biochemistry & Molecular Biology: 4 positions

Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications
Biochemistry & Molecular Biology	<a href="#">Curt Hines, PhD</a>	<a href="#">Hines Profile</a>	Breast Cancer; Microenvironment and cell interactions	0	0	<a href="#">Hines, 2016</a> <a href="#">Review: Hines 2011</a>
Biochemistry & Molecular Biology	<a href="#">Chien-An "Andy" Hu, PhD</a>	<a href="#">Hu Profile</a>	Necroptosis, Autophagy, Apoptosis, Cancer, Atherosclerosis	Maybe 1	Maybe 1	N/A
Biochemistry & Molecular Biology	<a href="#">Meilian Liu, PhD</a>	<a href="#">Liu Profile</a>	Adipose biology; brown adipocyte; inflammation; obesity; diabetes	1	1	<a href="#">Lui, et. al. 2018</a>
Biochemistry & Molecular Biology	<a href="#">Mark McCormick, PhD</a>	<a href="#">McCormick Profile</a>	Aging	Up to 2	1-3	<a href="#">McCormick, et. al. 2018</a>
Biochemistry & Molecular Biology	<a href="#">Xiang Xue, PhD</a>	<a href="#">Xue Profile</a>	Iron metabolism, colitis, colorectal cancer, hypoxia signaling	1	1 Spr 2 Fall	<a href="#">Xue, et. al. 2018</a>

## Internal Medicine:

Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications
IM: Infectious Diseases	<a href="#">Steven Bradfute, PhD</a>	<a href="#">Bradfute Profile</a>	Filovirus, Zika, Hanta, vaccination, immunity	Potentially 1-2	3	<a href="#">Bradfute, et. al. 2018</a>
IM: Hematology/Oncology	<a href="#">Matthew Fero, MD</a>	<a href="#">Fero Profile</a>	Cancer biology, miRNA, cell cycle, stem cells	0	0	<a href="#">Fero, et. al. 2018</a>

IM: Molecular Medicine	<a href="#">Yan Guo, PhD</a>	<a href="#">Guo Profile</a>	Bioinformatics, genomics, Cancer	1	1	<a href="#">Guo, et. al. 2018</a>
IM: Molecular Medicine	<a href="#">Scott Ness, PhD</a>	<a href="#">Ness Profile</a>	Transcriptional regulation, cancer, genomics	1 or 2	1 or 2	<a href="#">Ness, et. al. 2018</a>
IM: Translational Informatics Div.	<a href="#">Tudor Oprea, MD, PhD</a>	<a href="#">Oprea Profile</a>	AI, data science, drug discovery, informatics, translational research	1 Avail	1 Spr	<a href="#">Oprea, et. al. 2018</a>
IM: Div. of Epidemiology, Biosts & Prev Med	<a href="#">Kimberly Page, PhD, MPH</a>	<a href="#">Page Profile</a>	epidemiology, hepatitis C, HIV, sexually transmitted infections (STI), infectious disease	Maybe 1	1 Fall 1 Spr	<a href="#">Page, et. al. 2018</a>
IM: Molecular Medicine	Eric Prossnitz					
IM: Cancer Center	<a href="#">Alan Tomkinson, PhD</a>		DNA repair, DNA replication, DNA ligase, DNA repair inhibitors	1	2	
IM: Div. of Epidemiology, Biostatistics	<a href="#">Yiliang Zhu, PhD</a>	N/A	Research Meth/Tools (Study Design, Biostats); Health Risk Assessment; Health Outcome Research; Health Policy; New Data Analytics	1	1	
IM: Molecular Medicine	<a href="#">Hua-Ying Fan, PhD</a>	<a href="#">Fan Profile</a>	Epigenetics, DNA repair, Transcription memory, Chromatin remodeling, Premature Syndrome	1	1 Fall 1 Spr 1 summer	<a href="#">Fan, et. al. 2018</a>
<b>Cell Biology &amp; Physiology</b>						
Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications
Cell Biology & Physiology	Amy Gardiner		miRNA in cancer and angiogenesis			

Cell Biology & Physiology	<a href="#">Laura Gonzalez Bosc, PhD</a>	<a href="#">Gonzales Bosc Profile</a>	Vascular physiology, cell signaling, inflammation	Maybe 1	1 Fall	<a href="#">Gonzales Bosc, et. al. 2018</a>
Cell Biology & Physiology	<a href="#">Rebecca Hartley, PhD</a>	<a href="#">Hartley Profile</a>	RNA, RNA binding proteins, microRNAs, breast cancer, cell cycle	0	0	<a href="#">Hartley, et. al. 2018</a>
Cell Biology & Physiology	<a href="#">Nikki Jernigan, PhD</a>	<a href="#">Jernigan Profile</a>	Cardiovascular, pulmonary function, smooth muscle, mitochondria dysfunction, calcium signaling	Maybe 1	1 Fall 1 Spr	<a href="#">Jernigan, et. al. 2018</a>
Cell Biology & Physiology	<a href="#">Nancy Kanagy, PhD</a>	<a href="#">Kanagy profile</a>	Endothelial biology, cardiovascular, cell signaling	Maybe 1	1 Fall 1 Spr	<a href="#">Kanagy, et. al. 2018</a>
Cell Biology & Physiology	<a href="#">Jay Naik, PhD</a>	<a href="#">Naik Profile</a>	Cardiovascular, endothelial dysfunction, atherosclerosis, exosomes	Maybe 1	1 Fall 1 Spr	<a href="#">Naik, et. al. 2018</a>
Cell Biology & Physiology	<a href="#">Tom Resta, PhD</a>	<a href="#">Resta Profile</a>	Pulmonary hypertension; pulmonary circulation; endothelial physiology; vascular smooth muscle signaling; oxidant signaling	0	0	<a href="#">Resta, et. al. 2018</a>

## Molecular Genetics & Microbiology

Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications
Molecular Genetics & Microbiology	<a href="#">Kiran Bhaskar, PhD</a>	<a href="#">Bhaskar Profile</a>	Alzheimer's disease, tau, microglia, neuroinflammation, neurodegenerative diseases.	0	1-2	<a href="#">Bhaskar, et. al. 2018</a>
Molecular Genetics & Microbiology & Pathology	<a href="#">Judy Cannon, PhD</a>	<a href="#">Cannon Profile</a>	T cell immunology, computational biology, infectious disease, cell migration, T cell leukemia	Maybe 1	1-2	<a href="#">Cannon, et. al. 2017</a>
Molecular Genetics & Microbiology	<a href="#">Bryce Chackerian, PhD</a>	<a href="#">Chackerian Profile</a>	Vaccines for infectious and chronic diseases	1	1-2	<a href="#">Chackerian, et. al. 2018</a>

Molecular Genetics & Microbiology and AIM Center	<a href="#">Vojo Deretic, PhD</a>	<a href="#">Deretic Profile</a>	Autophagy		1	???
Molecular Genetics & Microbiology	<a href="#">Kathryn Fietze, PhD</a>	<a href="#">Fietze Profile</a>	Vaccines, infectious disease, antibodies, diagnostics	0	0	<a href="#">Fietze, et. al. 2018</a>
Molecular Genetics & Microbiology	<a href="#">Michael Mandell, PhD</a>	<a href="#">Mandell Profile</a>	autophagy, inflammation, HIV	0	0	<a href="#">Mandell, et. al. 2018</a>
Molecular Genetics & Microbiology	<a href="#">Mary Ann Osley, PhD</a>	<a href="#">Osley Profile</a>	cellular quiescence; chromatin and transcription, DNA repair and replication	0	1 Fall 1 Spr	<a href="#">Osley, et. al. 2018</a>
Molecular Genetics & Microbiology	<a href="#">Michelle Ozbun, PhD</a>	<a href="#">Ozbun Profile</a>	viral oncology, cell signaling, papillomaviruses, epithelial biology, wound response	0	0	<a href="#">Ozbun, et. al. 2018</a>
Molecular Genetics & Microbiology	<a href="#">David Peabody, PhD</a>	<a href="#">Peabody Profile</a>	Vaccine discovery by molecular mimicry	0	0	<a href="#">Peabody, et. al. 2018</a>
Molecular Genetics & Microbiology	<a href="#">Robert L. Rubin, PhD</a>	<a href="#">Rubin Profile</a>	Autoimmunity, T cell tolerance, Autoantibodies	0	0	<a href="#">Rubin, et. al. 2018</a>
Molecular Genetics & Microbiology	<a href="#">Xuexian Yang, PhD</a>	<a href="#">Yang Profile</a>	Immunity, autoimmunity, allergy, inflammation, autophagy	1	1	<a href="#">Yang, et. al. 2018</a>
<b>Neurology</b>						
Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications
Neurology	<a href="#">Surojit Paul, PhD</a>	<a href="#">Paul Profile</a>	Cerebral stroke, neuroinflammation, aging, neuroprotection, tyrosine phosphatases	Maybe 1	1 Fall 1 Spr	<a href="#">Paul, et. al. 2018</a>

Neurology	<a href="#">Stefan Posse, PhD</a>	<a href="#">Posse Profile</a>	Functional and spectroscopic MRI neurovascular research; presurgical mapping in patients with brain tumors, strokes & cavernomas	1	1 Fall 1 Spr	<a href="#">Posse, et. al. 2018</a>
<b>Neurosciences</b>						
Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications
Neurosciences	<a href="#">Jonathan L Brigman, PhD</a>	<a href="#">Brigman Profile</a>	Executive control, substance abuse, synaptic plasticity, NMDA receptor function	1	1 Fall 1 Spr	<a href="#">Brigman, et. al. 2018</a>
Neurosciences	<a href="#">Nikolaos Mellios MD, PhD</a>	<a href="#">Mellios Profile</a>	Role of circular RNAs and miRNAs in neuropsychiatric and fetal alcohol syndrome disorders	1	2	<a href="#">Mellios, et. al. 2018</a>
Neurosciences	<a href="#">Erin Milligan, PhD</a>	<a href="#">Milligan Profile</a>	Glial biology, Neuroimmune interactions, Pain therapeutics, Prenatal alcohol exposure	0	0	<a href="#">Milligan, et. al. 2018</a>
Neurosciences	<a href="#">Russell Morton, PhD</a>	<a href="#">Morton Profile</a>	Brain Injury, electrophysiology, in-vivo imaging	Maybe 1	1 Fall 1 Spr	<a href="#">Morton, et. al. 2018</a>
Neurosciences	<a href="#">Fernando Valenzuela MD PhD</a>	<a href="#">Valenzuela Profile</a>	Development, synaptic, alcohol, neurotransmission, neurophysiology	1 Fall 2019?	2 Fall	<a href="#">Valenzuela, et. al. 2018</a>
Neurosciences	<a href="#">Jason Weick, PhD</a>	<a href="#">Weick Profile</a>	Pluripotent stem cells, synaptic physiology, single cell RNA-sequencing, optogenetics	1	3	<a href="#">Weick, et. al. 2018</a>
Neurosciences	<a href="#">Tou Yia Vue, PhD</a>	<a href="#">Vue Profile</a>	neural development, brain tumor development, transcription factor function, glial cell fate specification	1, possibly 2	2 - 3	<a href="#">Vue, et. al. 2018</a>
<b>Pathology</b>						
Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications

Pathology	<a href="#">Elaine L. Bearer, MD, PhD</a>	<a href="#">Bearer Profile</a>	Brain imaging, epigenetics, PTSD, Autism, pediatric trauma & brain development, Alzheimer's & dementia, BigData modeling	Maybe 1	1 Fall 1 Spr	<a href="#">Bearer, et. al. 2018</a>
Pathology	<a href="#">Jennifer Gillette, PhD</a>	<a href="#">Gillette Profile</a>	Stem cell and Cancer cell biology; Cell Signaling; Bone marrow niche	Maybe 1	1 Fall 1 Spr	<a href="#">Gillette, et. al. 2018</a>
Pathology, Chem & Biological Engineering	<a href="#">Rama Gullapalli, MD, PhD</a>	<a href="#">Gullapalli Profile 1</a> <a href="#">Profile 2</a>	Hepatobiliary Cancer, Genomics, Bioinformatics, Systems Biology, Heavy metal toxicology	Maybe 1 Spr '19	1 Spr	<a href="#">Gullapalli, et. al. 2018</a>
Pathology	<a href="#">Diane Lidke, PhD</a>	<a href="#">Lidke Profile</a>	Cell Signaling, Fluorescence Microscopy, Biophysics, Cancer, Allergy	0	0	<a href="#">Lidke, et. al. 2018</a>
Pathology	<a href="#">Larry Sklar, PhD</a>	<a href="#">Sklar Profile</a>	Drug discovery and repurposing, integrin, efflux transporter, GTPase, GPCR	tbd	tbd	<a href="#">Sklar, et. al. 2018</a>
Pathology	<a href="#">Mara P. Steinkamp, PhD</a>	<a href="#">Steinkamp Profile</a>	ErbB receptors, ovarian cancer, PDX models, xenografts, kinase inhibitors	Maybe in Spr	1	<a href="#">Steinkamp, et. al. 2018</a>
Pathology	<a href="#">Angela Wandinger-Ness, PhD</a>	<a href="#">Wandinger-Ness Profile</a>	Drug discovery, Ovarian Cancer, Rac and Rab GTPases	Maybe 1	1-2	<a href="#">Wandinger-Ness, et al. 2018</a>

## Pediatrics

Department	Faculty Name	Web Page	Research Topic/Interest	Student slots	Rotations	Recent Publications
Pediatrics	<a href="#">Darrell L. Dinwiddie, PhD</a>	<a href="#">Dinwiddie Profile</a>	Infectious Diseases, Genomics, Next-Generation Sequencing, Respiratory Viruses, Host Immune Response	Maybe 1	1 Fall 1 Spr	<a href="#">Dinwiddie, et. al. 2018</a>
Pediatrics:. Hematology-Oncology	<a href="#">Ksenia Matlawska-Wasowska, PhD</a>	<a href="#">Matlawska-Wasowska Profile</a>	leukemia cell biology, cell signaling, genetics, novel therapeutics	0	Maybe 1	<a href="#">Matlawska-Wasowska, et. al. 2018</a>

Pharmaceutical Sciences						
Department	Faculty Name	Web Page	Research Topic/Interest	Student Slots	Rotations	Recent Publications
Pharmaceutical Sciences	<a href="#">Alicia Bolt, PhD</a>	<a href="#">Bolt Profile</a>	Metal Toxicology; Cancer Biology; Tumor Microenvironment; Immunotoxicity, Bone Biology	Maybe 1	1 Fall 1 Spr	<a href="#">Bolt et. al. 2016</a> <a href="#">Bolt et al. 2015</a>
Pharmaceutical Sciences	<a href="#">Matthew Campen, PhD</a>	<a href="#">Campen Profile</a>	Health effects of inhaled toxicants, including cardiovascular, pulmonary, and neural	0	1 Spr	<a href="#">Campen, et. al. 2018</a>
Pharmaceutical Sciences	<a href="#">Dawn Delfin, PhD</a>	N/A	Cardiovascular, heart, extracellular matrix, stem cells, heart failure	0	Maybe 1	<a href="#">Delfin, et. al. 2018</a>
Pharmaceutical Sciences	<a href="#">Pam Hall, PhD</a>	N/A	Staphylococcus aureus, host-pathogen interactions, innate immunity, vaccines	Maybe 1	1 Fall 1 Spr	<a href="#">Hall, et. al. 2018</a>
Pharmaceutical Sciences	<a href="#">Jim Liu, PhD</a>	<a href="#">Liu, et. al. 2018</a>	Arsenic, environmental health, toxicity, carcinogenesis	1	2	<a href="#">Liu, et. al. 2018</a>
Pharmaceutical Sciences	<a href="#">Pavan Muttil, PhD</a>	<a href="#">Muttil Profile</a>	Vaccine efficacy and stabilization, microparticles, needle-free drug and vaccine administration	Maybe 1	1 Fall 1 Spr	<a href="#">Muttil, et. al. 2018</a>
Pharmaceutical Sciences	<a href="#">Katie Zychowski, PhD</a>	<a href="#">Zychowski Profile</a>	Environmental health, toxicology, vascular, Native American health, neuroscience, air pollution, preeclampsia, atherosclerosis	1		<a href="#">Zychowski et al. 2018</a>