

Student		Supervisor			Department	Project Title
Enrique	Aburto Arreguin	Dr. Jessica	Sheldon	Biochemistry, Microbiology, and Immunology	Identifying mechanisms of persistence in clinical isolates of <i>Acinetobacter baumannii</i>	
Amina	Alvi	Dr. Franco	Vizeacoumar	Oncology	Validation of genetic vulnerabilities of telomerase-overexpressing prostate cancers	
Erica	Andres	Dr. Aaron	White	Biochemistry, Microbiology, and Immunology	Purification of bacterial amyloid curli from <i>E. coli</i> and interactions with human beta amyloid	
Nathaniel	Aubynn	Dr. Michael	Levin	Anatomy, Physiology, and Pharmacology	Small Molecule Therapies for the Treatment of Neurodegeneration in Multiple Sclerosis	
Rylan	Bahrey	Dr. Aaron	White	Biochemistry, Microbiology, and Immunology	Using Transposon sequencing to identify genes involved in <i>Salmonella</i> survival	
Zachary	Berardi	Dr. Justin	Botterill	Anatomy, Physiology, and Pharmacology	Mapping and manipulating the inputs of hippocampal mossy cells	
Hetvi	Darji	Dr. Asmahan	AbuArish	Anatomy, Physiology, and Pharmacology	Quantifying antibody-antibody interferences using quantitative fluorescence imaging	
Ethan	Done	Dr. Jo-Anne	Dillon	Biochemistry, Microbiology, and Immunology	Developing Strategies for Novel Point of Care Test for Bacteria	
Malia	Gee	Dr. Julian	Tam	Medicine	Improving Airway Mucociliary Clearance with Nebulized Hypertonic Saline and TRPV4 Agonists	
Aiden	Glass	Dr. John	Howland	Anatomy, Physiology, and Pharmacology	Novel Strategies for Measuring the Neural Substrates Underlying Attention in Adolescent Rats	
Harmony	Grainger	Dr. Franco	Vizeacoumar	Oncology	Validation of genetic vulnerabilities of telomerase-overexpressing ovarian cancers	
Rowen	Greene	Dr. Dean	Chamberlain	Oncology	Linking Hypoxia to Cancer Stem Cell Mediated Drug Resistance in Tumors	
Royce	Hermanson	Dr. Justin	Botterill	Anatomy, Physiology, and Pharmacology	Measuring the activity of dorsal and ventral mossy cells during hippocampal-dependent behaviors via fluorescent calcium indicators	

Aidan	Hydomako	Dr. Scott	Widenmaier	Anatomy, Physiology, and Pharmacology	Investigating the influence of liver stress defence on high density lipoprotein function during sepsis
Joanne	Jibu Zachariah	Dr. Heather	Szabo-Rogers	Anatomy, Physiology, and Pharmacology	The Influence of Hedgehog Signaling on Robinow Syndrome
Carter	Johnson	Dr. Darrell	Mousseau	Psychiatry	Using brain organoids to establish whether markers of type 2 diabetes align with markers of Alzheimer disease pathology
Justin	Klassen	Dr. Anil Kumar Victoria	Ansaalem	Biochemistry, Microbiology, and Immunology	Validation of human microproteins as dependency factors for Zika virus
Griffin	Lehnert	Dr. Jo-Anne	Dillon	Biochemistry, Microbiology, and Immunology	Significance of conserved N-terminal residues of the cell division protein FtsI on penicillin resistance and interaction with FtsW in Neisseria gonorrhoeae
Darby	Liebrecht	Dr. Peter	Pioli	Biochemistry, Microbiology, and Immunology	CD95(Fas) Mediated Regulation of Thymus B Cell Survival
Issac	Lo	Dr. Veronica	Campanucci	Anatomy, Physiology, and Pharmacology	Effect of CFTR modulators on gastrointestinal organoids
Francisca	Lopez Molina	Dr. Jeffrey	Chen	VIDO	Verification of the genetic determinants of acid pH-mediated control of Mycobacterium tuberculosis type-7 ESX-1 secretion activity
Eric	Luo	Dr. Jenny	Wachter	Biochemistry, Microbiology, and Immunology	Investigating the prophylactic potential of Borrelia burgdorferi outer membrane vesicles
Ethan	Minier	Dr. Changting	Xiao	Anatomy, Physiology, and Pharmacology	Characterization of Extracellular Vesicles in Gut Lymph Fluid
Allison	Novecosky	Dr. Wei	Xiao	Biochemistry, Microbiology & Immunology	Dissecting Rad5 functions in DNA-damage tolerance through protein-protein interaction network
Jian	Park	Dr. Jeff	Dong	Biochemistry, Microbiology, and Immunology	TREM2 Regulation of the Response of Macrophages to Oxidized Phosphatidylcholines
Diya	Patel	Dr. Oleg	Dmitriev	Biochemistry, Microbiology, and Immunology	Investigating the metal binding properties of MEMO1
Mahboubeh	Pordeli	Dr. Francisco	Cayabyab	Surgery (Neuroscience Research Cluster)	A novel role of adenosine A1 receptor signaling in neurodegeneration of dopaminergic neurons.

Jenna	Reding	Dr. Michael	Levin	Anatomy, Physiology, and Pharmacology	hnRNP A1 Dysfunction & Its Contribution to the Integrated Stress Response and Neurodegeneration
Syed Ali Raza	Rizvi	Dr. David	Cooper	Anatomy, Physiology, and Pharmacology	Time-Lapsed Synchrotron Imaging of Rabbits: A Novel Platform for Assessing the Role of Tissue-Level Strain in the Regulation of Bone Remodeling
Ario	Safaeian	Dr. Changting	Xiao	Anatomy, Physiology, and Pharmacology	Characterization of Lipid Droplets in Gut Absorptive Cells
Elina	Setork	Dr. Francisco	Cayabyab and Changiz Taghibiglou	Surgery/Anatomy, Physiology, and Pharmacology	Differential Plasma Membrane Compartmental Localization of AMPARs and Adenosine Receptors.
Satyam	Singh	Dr. Wendie	Marks	Pediatrics	Development of a two-hit model of early life adversity in Wistar rats. Examination of the basic mechanisms underlying the effects of early life stress and protein restriction
Jared	Stevenson	Dr. Michelle	Collins	Anatomy, Physiology, and Pharmacology	Investigating the Role of Pitx2c on Cardiometabolic Pathways in the Neonatal Heart
Aaron	Su	Dr. Scott	Widenmaier	Anatomy, Physiology, and Pharmacology	Investigating the Effect of Hepatocyte Cholesterol Crystals on Interleukin 1beta-mediated Liver Inflammation
Maya	Wilson	Dr. Valerie	Verge	Anatomy, Physiology, and Pharmacology	Can a novel non-invasive therapy, acute intermittent hypoxia, rapidly sensitize neural tissue to the repair promoting neurotrophin - NGF?
Kaylen	Young	Dr. John	Howland	Anatomy, Physiology, and Pharmacology	Altered attention in mice as a model to study the long-term effects of gestational exposure to cannabinoids on the offspring
Fatma	Younis	Dr. David	Cooper	Anatomy, Physiology, and Pharmacology	Is Intra-Trabecular Bone Remodeling Induced by Parathyroid Hormone A Consequence of Trabecular Thickening?
Maheen	Zafar	Dr. Michael	Wu	Veterinary Biomedical Sciences	Tissue and temporal requirement of the Integrator in <i>C. elegans</i> development
Maria	Zafar	Dr. Yuliang	Wu	Biochemistry, Microbiology, and Immunology	Role of DDX41 Helicase in P-bodies Formation and MDS/AML
Steve	Zheng	Dr. Asmahan	AbuArish	Anatomy, Physiology, and Pharmacology	Elucidating the downregulation of stress granules formation in cystic fibrosis airway epithelial cells
Erwin	Zhu	Dr. Juan	Ianowski	Anatomy, Physiology, and Pharmacology	Ionocyte Contribution to Airway fluid secretion by Swine Bronchial Epithelium