

Faculty Supervisor		Department	Student		Project Title
Dr. Linda	Chelico	BMI	Samantha	Allan	Role of APOBEC3B and PFD5 proteins in regulating the transcription factor, cMyc
Dr. Franco	Vizeacoumar	Oncology	Amina	Alvi	Exploiting Telomerase-Driven Vulnerabilities Through Synthetic Dosage Lethality in Cancer
Dr. Michelle	Collins	APP	McKenzie	Byers	Exploring the role of Pitx2c in the neonatal rat atrium
Dr. Justin	Botterill	APP	Katherine	Chang	TRAPing hippocampal neurons involved in fear learning and memory
Dr. Jenny	Wachter	BMI	Andrew	Delainey	Investigation of the understudied phages of Borrelia burgdorferi
Dr. Wendie	Marks	Pediatrics	Nada	Emara	Modeling early life adversity in Wistar rats: Exploring the effects of maternal fiber restriction on pup development and the brain
Dr. Jessica	Sheldon	BMI	Christine Joyce	Francisco	Characterization of iron acquisition pathways in Morganella morganii, an emerging opportunistic pathogen

Dr. Wendie Marks	Pediatrics	Fabi Funes	Effects of a two-hit model of early life adversity on hypothalamic gene and protein expression in Wistar rats
Dr. Asmahan AbuArish	APP	Jieni (Jennie) Gao	Characterizing bronchial epithelial cell polarization and differentiation on glass compared to a standard polarization/differentiation protocol
Dr. Jenny-Lee Thomassin	BMI	Presly Goodwin	Defining the in vitro activation conditions of the type II secretion system
Dr. George Katselis	Medicine	Atharv Govardhan	Investigating the Role of Diabetic Pregnancies in Kidney Disease Among Diabetic Adolescents Using Urine Proteomics
Dr. Sebastian Gauvrit	APP	Aniela Hernandez	Investigating the role of Vegfa signaling pathway during brain blood vessels formation
Dr. Justin Botterill	APP	Jamila Jalilova	Controlling epileptiform activity through the supramammillary-hippocampal circuit in slice model of epilepsy
Dr. Deborah Anderson	Oncology	Morgan Johansson	Validating CREB3L1 promoter binding sequences

Dr. Michelle Collins	APP	Halle Johnsen	Characterizing the role of Pitx2c in cardiac muscle development in zebrafish
Dr. Steven Machtaler	Medical Imaging	Ismail Kamel	Understanding the mechanism of Cisplatin-Induced Acute and Chronic Kidney Injury
Dr. Jo-Anne Dillon	BMI	Kirsten Lowe	Does the N-terminus of Highly Conserved FtsI in <i>N. gonorrhoeae</i> Act as an Allosteric Site Affecting Susceptibility to Antibiotics?
Dr. Jenny Wachter	BMI	Eric Luo	Exploring Antigenic Variation Mechanisms in <i>Borrelia burgdorferi</i>
Dr. Michael Wu	BMI	Anna McCullough	Involvement of rRNA processing in histone biosynthesis and genomic stability
Dr. Jeff Dong	BMI	Tanisha Mehra	Investigating the Role of Oxidized Phosphatidylcholine in Chronic MS Lesions
Dr. Yuliang Wu	BMI	Paul Sebastian Moscoso Serrano	Role of DDX41 Helicase in Stress Granule Formation and MDS/AML

Dr. Anand	Krishnan	APP	Jay	Patel	Exploring the Receptor for Mesencephalic Astrocyte-Derived Neurotrophic Factor
Dr. Changiz	Taghibiglou	APP	Yolanda	Plaza	Effect of SREBP-1 Lipid Transcription Factor Inhibition Using UPDG on Glioblastoma Cells
Dr. Franco	Vizeacoumar	Oncology	Jaylynn	Quail	Exploiting Securin Overexpression for Cancer Treatment
Dr. Valerie	Verge	APP	Thora	Reynolds	Assessing Acute Intermittent Hypoxia-induced beneficial ER stress in a mouse model of MS
Dr. Changting	Xiao	APP	Uday	Sandhu	Characterization of Gut-derived Extracellular Vesicles
Dr. Francisco	Cayabyab	Surgery	Patrick	Sarmiento	Regulation of the non-selective cation channel HCN by clathrin-mediated endocytosis and adenosine A1 receptors in the brain
Dr. John	Howland	APP	Ronin	Sawitsky	Altered attention in mice following gestational exposure to high-THC Cannabis smoke.

Dr. Scott	Widenmaier	APP	Sierra	Siedlecki	Investigating metabolic factors underlying formation of lipid droplet cholesterol crystals
Dr. Michael	Levin	Neurology	Reed	Simonson	Evaluating the impact of hnRNP A1 mutations on neuronal morphology
Dr. Anil	Kumar	BMI	Eve	Simpson	Analysis of Eastern equine encephalitis virus NSP1 protein's interaction with cellular vATPase complex.
Dr. Scott	Widenmaier	APP	Shennan (Aaron)	Su	Investigating the Effect of Very Low-Density Lipoprotein on Protective Mechanisms Against Sepsis
Dr. Angela	Rasmussen	BMI	Lauryn	Urzada	Effect of sex hormones on coronavirus non-structural accessory proteins
Dr. Darrell	Mousseau	Psychiatry	Jack	Walther	Investigation of a physical interaction between the depression-related serotonin transporter and the Alzheimer disease-related beta-amyloid peptide.
Dr. Wei	Xiao	BMI	Wayne	Wang	Purification and Functional Characterization of a Budding Yeast Protein Ynr064C

Dr. John	Howland	APP	Caleb	White	Measurement of nucleus accumbens dopamine activity during a working memory task in male and female rats
Dr. Heather	Szabo-Rogers	APP	Joanne	Zachariah	Investigating the role of Protein Kinase A in midfacial clefts
Dr. Oleg	Dmitriev	BMI	Ayesha	Zafar	Molecular Effect of the G14S Mutation in the Copper Chaperone ATOX1
Dr. Asmahan	AbuArish	APP	Chenkun (Steve)	Zheng	Characterizing the cellular mechanism underlying stress regulation in differentiated human bronchial epithelial cells