

Faculty Supervisor			Department		Student		Project Title
Dr.	Asmahan	AbuArish	APP	Hana	Shaarawy	Identifying the cellular mechanism underlying stress granules disassembly in human bronchial epithelial cells using quantitative fluorescence imaging	
Dr.	Deborah	Anderson	Oncology	Morgan	Johannson	Evaluating the specificity and anti-metastatic activity of the CLIC3 inhibitor BP370 in triple negative breast cancer cells	
Dr.	Justin	Botterill	APP	Ty	Grant-Deutscher	Comparing Dorsal-Ventral Differences in Hippocampal Mossy Cells using Optogenetics	
Dr.	Justin	Botterill	APP	Azra	Hadzihasanovic	Evaluating the electrophysiological properties of hippocampal engram cells that support fear learning and memory	
Dr.	Julia	Boughner	APP	Keisha	Singh	The Role of Osteogenic Genes in Primate Tooth Development	
Dr.	Linda	Chelico	BMI	Samantha	Allan	Characterizing the functional effects of the A3B interaction with HUWE1	
Dr.	Linda	Chelico	BMI	Rhea	Martin	Regulation of cMyc Through the APOBEC3B Interaction with PFD5	
Dr.	Michelle	Collins	APP	Mahrukh	Hassan	Exploring the role of Pitx2c in the neonatal rat atrium	
Dr.	Oleg	Dmitriev	BMI	Adina Kallarakkal	Antu	Nanobody-assisted Structural Analysis of Copper Transporter ATP7B	
Dr.	Oleg	Dmitriev	BMI	Anna	Gosselin	Differential Effects of Copper and Iron Binding to the Cell Motility Regulator MEMO1	
Dr.	Sébastien	Gauvrit	APP	Maureen	Ekwunife	Investigating the role of the transcription factor Elk3 during zebrafish lymphatic development	
Dr.	Sébastien	Gauvrit	APP	Aniela Zyna	Hernandez	Investigating the effect of cardiac rhythm dysfunction on cerebrovascular health and brain inflammation	
Dr.	John	Howland	APP	Emmanuella	Ehidihamhen	Latent Inhibition and Fear Conditioning in Mice Following Gestational Exposure to High-THC Cannabis Smoke	
Dr.	George	Katselis	Medicine	Atharv	Govardhan	Blood Proteomics to Evaluate the Impact of Whole-Body Vibration on Cognitive Impairment Using a Rat Model	
Dr.	George	Katselis	Medicine	Jeshua	Jacob	Characterization of Protein-Protein Interactions Between Platelet and Complement System Proteins Through Mass Spectrometry-Based Proteomics	
Dr.	Michael	Kelly	Surgery	Maxwell	Pally	Chemically specific X-ray fluorescence imaging of phosphorus, sulfur, and potassium.	

Dr.	Anand	Krishnan	APP	Isabelle	Monsman	Exploring the signaling network of mesencephalic astrocyte-derived neurotrophic factor (MANF)
Dr.	Anand	Krishnan	APP	Nanditha	Prasad	Exploring the roles of CPLANE-1 and hemopexin in perineural invasion
Dr.	Kerry	Lavender	BMI	Halle	Beblow	Comparative Analysis of Interferon-Alpha Subtype Potency Against Epstein-Barr Virus
Dr.	Michael	Levin	APP	Janelle	Proctor	The role of RNA binding protein dysfunction on synaptic pathology in neurons
Dr.	Michael	Levin	APP	Shelton Reece	Ziola	How hnRNP A1 dysfunction alters mitochondrial function and contributes to neurodegeneration in multiple sclerosis
Dr.	Darrell	Mousseau	Psychiatry	Elizabeth	Byambatseren	The Activity of Monoamine Oxidase Changes as It Flips Between the Outer and Inner Mitochondrial Membranes; Implications for Neurotoxic Oxidative Stress.
Dr.	Jess	Sheldon	BMI	Stuti	Thakkar	Characterizing the iron acquisition pathways of <i>Morganella morganii</i> , an emerging opportunistic superbug
Dr.	Jenny-Lee	Thomassin	BMI	Colby	Maduck	Nanotechnology for improved and sensitive detection of ompin-protease containing pathogens
Dr.	Jenny	Wachter	VIDO (BMIS)	Andrew	Delainey	The Effects of Spermidine on Gene Regulation and Virulence in <i>Borrelia burgdorferi</i>
Dr.	Tyler	Wenzel	Psychiatry	Ethan	Adams	Characterizing Neurological Signalling of Very-Long Chain Fatty Acids and Defining Uptake Mechanisms to Better Treat Pediatric Brain Diseases
Dr.	Aaron	White	BMI	Josh	Cameron	Exploring the interactions between <i>E. coli curli</i> and human amyloid beta peptides.
Dr.	Aaron	White	BMI	Matt	Scrivens	Generating Mutant Strains of <i>Salmonella</i> and Testing Their Survival in Water
Dr.	Michael	Wozny	BMI	Gabriel	Swetlikoff	Cryo-Correlative Electron Microscopy of Mitochondrial Ultrastructure during MAVS-Mediated Antiviral Signaling in Neuroblastoma Cells
Dr.	Yuliang	Wu	BMI	Janice	Mak	Role of DDX41 Helicase in Nuclear Speckle and MDS/AML
Dr.	Changting	Xiao	APP	Uday	Sandhu	Gut-derived extracellular vesicles in the regulation of brain endothelial cell function