

	Principal-Investigators	Department	Project Title
1	Drs. Asmahan AbuArish & Chung-Chun Tyan	Anatomy, Physiology and Pharmacology	Interrogating the role of the integrated stress response in COPD airway hyperinflammation using human bronchial epithelial tissue
2	Dr. Scott Adams	Medical Imaging	Improving Cardiovascular Disease Diagnosis Using Multimodal Artificial Intelligence
3	Dr. AG Ahmed	Psychiatry	Virtual Intensive Substance Use Treatment Outpatient Program (ViSTOP)
4	Dr. Anil Kumar Ansalem	Biochemistry, Microbiology and Immunology	Human Microproteins as host factors of Dengue virus
5	Dr. Lloyd Balbuena	Psychiatry	Estimating the contribution of smoking-related genes and behaviors to suicide deaths
6	Drs. Julia Boughner & Heather Szabo-Rogers	Anatomy, Physiology and Pharmacology	Tooth the Rescue! The Mini Adventures of Fermt1 and Kremen2
7	Dr. Veronica Campanucci	Anatomy, Physiology and Pharmacology	Effect of ETI on the CF gut-sensory interface: a novel gut-on-a-chip model
8	Dr. Dean Chapman	Anatomy, Physiology and Pharmacology	Synchrotron Evaluation of Toxicant and Nutrient Accumulation in Arctic Char to Evaluate Potential as a Food Source to Combat Northern Food Insecurity
9	Dr. Michelle Collins	Anatomy, Physiology and Pharmacology	Impact of 4q25 Risk Variants on PITX2C Regulation and Metabolic Biomarkers in Atrial Fibrillation
10	Dr. Jo-Anne Dillon	Biochemistry Microbiology and Immunology	Role of the N-terminus of FtsI of Neisseria gonorrhoeae in cell division and pencillin binding
11	Drs. Ernesto Figueiro-Filho & Sarah N. Smith	Obstetrics and Gynecology	Optimizing Cesarean Deliveries Outcomes in Obesity: A Comparative Study of Closed Incision Negative Pressure Therapy (ciNPT) with High Transverse (New Technique) and Pfannenstiel (Standard of care) Incisions
12	Dr. Juan Ianowski	Anatomy, Physiology and Pharmacology	Mechanisms of airway fluid secretion, reabsorption, and pH regulation in CF and non-CF primary human bronchial epithelial cells
13	Dr. Michael Kelly	Surgery	Correlating post-stroke edema with brain structure displacement

14	Drs. Amal Khan & Ivar Mendez	Community Health and Epidemiology	Development and Evaluation of a Novel Robotic Arm Ultrasound System to Improve Access to Prenatal Ultrasound Services in Rural and Remote Communities
15	Dr. Kerry Lavender	Biochemistry, Microbiology & Immunology	Preliminary studies of a novel oligonucleotide therapeutic (OT) delivery platform in a humanized mouse model of HIV infection.
16	Drs. Scot Leary & Peter D. Pioli	Biochemistry, Microbiology and Immunology	Disrupting mitochondrial function in the liver: implications for immune suppression
17	Dr. Michael Levin	Neurology	hnRNP A1 mediated synaptic dysfunction in the pathogenesis of neurological disease
18	Drs. Darrell Mousseau & Kerri Schellenberg	Psychiatry/Neurology	Establishing markers of Amyotrophic Lateral Sclerosis disease progression using stem cell-derived brain organoids
19	Drs. Darrien Rattray & Melissa Workman	Obstetrics and Gynecology	Laparoscopic-guided Transversus Abdominis Plane block to reduce postoperative pain: A Feasibility Study (TAP OUT PAIN)
20	Dr. Rabia Shahid	Medicine	Investigation of New-Onset Hyperglycemia, Glucose Variability, and Their Association with Hemoglobin A1c and Serum Fructosamine in Breast Cancer Patients Undergoing Treatment.
21	Dr. Valerie Verge	Anatomy, Physiology and Pharmacology	Acute Intermittent Hypoxia, a non-invasive therapy to prevent and repair blood brain barrier dysfunction in a mouse model of Multiple Sclerosis
22	Dr. Scott Widenmaier	Anatomy, Physiology, and Pharmacology	Role of a hepatic Nrf1/VLDL axis in protecting against bacterial sepsis
23	Drs. Fang Wu & Ahmed Mostafa	Pathology & Lab Medicine	Early Detection of Kidney Allograft Dysfunction in Post-transplant Patients Using Metabolomics Approaches Combined with Artificial Intelligent and Machine Learning