

2020/2021 Bridge Grants

Anazodo, Uduenna (Lawson Health Research Institute)

Co-PI: Frisbee, Stephanie

Exploring the inflammatory heart-brain connection: An In vivo imaging study of associations of myocardial inflammation to neuroinflammation and early cerebrovascular degeneration in patients with IHD

Bolz, Steffen-Sebastian (University of Toronto)

Microvascular smooth muscle casein kinase 1: a new therapeutic target to safely reduce peripheral resistance in heart failure

Bourque, Stephane (University of Alberta)

Mechanisms of programming of cardiovascular dysfunction by perinatal iron deficiency

Butalia, Sonia (University of Calgary)

Assessing a Strategy to Improve the Treatment of High Cholesterol

Chauhan, Vijay (University Health Network)

Quantifying QRS fragmentation to improve patient selection for cardiac resynchronization therapy

D'Antono, Bianca (Montreal Heart Institute)

BEL-AGE Phase 2: Psychological burden and pathological aging in men and women with and without coronary artery disease: Ten years later

Dash, Satya (University Health Network)

Co-PI: Jackson, Timothy

Investigating the role of neuropeptide Y 4 receptor in weight loss and improved cardiometabolic markers after bariatric surgery

Fedida, David (University of British Columbia)

Activators of KCNQ1 and KCNE(x) ion channel complexes

Feng, Qingping (University of Western Ontario)

Maternal diabetes and congenital heart defects: Role of miRNA-122

Field, Thalia (University of British Columbia)

SEARCH – Stroke and vAscular Risk factors contributing to neuroCognitive decline in adult congenital Heart disease

Floras, John (University Health Network)

Disturbances of neurogenic cardiovascular control in heart failure with preserved ejection fraction: characterization and modulation

Gallagher, Anne (Hôpital Sainte Justine)

Co-PI: Simard, Marie-Noelle

Impact of early systematic interdisciplinary follow-up program on neurodevelopmental outcomes in school-aged children with CHD: Phase 2 of the CINC Study

Goupil, Rémi (Hôpital du Sacré-Coeur de Montréal)

Redefining blood pressure: How novel views of the arterial tree can lead to better cardiovascular risk stratification

Gramolini, Anthony (University of Toronto)

Regulation of phospholamban in cardiac muscle

Greenway, Steven (University of Calgary)

Determining disease pathogenesis, identifying the mechanism of action for two novel therapeutics and predicting patient prognosis in DCMA, a mitochondrial cardiomyopathy

Harper, Mary-Ellen (University of Ottawa)

Mitochondrial supercomplex formation in the prevention of heart failure

Hatch, Grant (University of Manitoba)

Regulation of cardiolipin synthesis in the heart

Hornberger, Lisa (University of Alberta)

Vascular Dysfunction in Maternal Heart Disease & Its Contribution to Adverse Pregnancy Outcomes

Ikura, Mitsuhiro (University Health Network)

Mechanistic studies on calcium channels regulating calcium homeostasis in the heart in health and disease

Jackevicius, Cynthia (Institute of Clinical Evaluative Sciences)
Optimizing Novel Diabetes Therapy in Patients with Cardiovascular Disease

Khoury, Michael (University of Alberta)
High Intensity Interval Training in Youth with Congenital Heart Disease: A Randomized Controlled Trial of a Novel Telemedicine Video Game-Linked Exercise Platform

Kriz, Jasna (Université Laval)
Therapeutic reprogramming of microglia after stroke: identifying sex-dependent immune targets

Lacoste, Baptiste (Ottawa Hospital Research Institute)
Sex differences in cerebral blood flow regulation following experimental ischemic stroke

Lalu, Manoj (Ottawa Hospital Research Institute)
Co-PI: Fergusson, Dean
Cellular preconditioning for post-Surgical Myocardial Ischemic Complications (COSMIC)

Lee, Douglas (Toronto General Hospital Research Institute)
High-Dimensional Data and Machine Learning for Cardiovascular Risk Prediction

Leong-Poi, Howard (St. Michael's Hospital)
S100A6 protein in Myocardial Pathobiology

Lesage, Frederic (Montreal Heart Institute)
Underpinning the relationship between neutrophil adhesion, plugged capillaries, brain hypoxic micropockets and their biomarkers

Lewis, Krystina (University of Ottawa)
Co-PI: Carroll, Sandra
Implementing effective strategies to engage patients in making decisions along the ICD care pathway: A multi-province comparative case study

Li, Ren-Ke (University Health Network)
Aging Negatively Impacts EV Therapy For Improving Cardiac Repair Following Myocardial Ischemia-Reperfusion

Longmuir, Patricia (Children's Hospital of Eastern Ontario)
Preventing Sedentary Lifestyles among Young Children Born with Congenital Heart Defects: A feasibility study of physical activity rehabilitation after surgical or catheterization intervention

Lopaschuk, Gary (University of Alberta)
Branched chain amino acid contribution to cardiac insulin resistance in heart failure

Mansfield, Avril (Toronto Rehabilitation Institute)
Co-PI: Inness, Elizabeth
Identifying the barriers to accessing aerobic exercise early after stroke

Marelli, Ariane (McGill University Health Center Research Institute)
Co-PI: Yang, Yi
Heart failure trajectory along the care continuum for congenital heart disease patients across the lifespan

Marsden, Philip (St. Michael's Hospital)
Hypoxia signalling in the vascular endothelium: the importance of flow

Martino, Rosemary (University of Toronto)
Validation of an Online Independent Training Program for TOR-BSST® Dysphagia Screeners

McIntyre, Christopher (Lawson Health Research Institute)
Realizing Precision Medicine in hemodialysis patient care using individualized computational modelling of cardiac harm

Morshead, Cindi (University of Toronto)
Activating endogenous neural precursor pools for neural repair in a model of neonatal stroke

Murphy, Timothy (University of British Columbia)
Enabling high-throughput and sensitive stroke assessment using water reaching in mouse models

Murray, Allan (University of Alberta)
The apelin/ apelin receptor axis and transplant vasculopathy

Parent, Lucie (Université de Montréal)

Molecular identification of pharmacological targets in heart failure: a role for SK channels

Prato, Frank (Lawson Health Research Institute)

Improving Non-Invasive Imaging of Myocardial Ischemia and Inflammation

Ramachandran, Rithwik (University of Western Ontario)

Targeting Transient Receptor Potential Vanilloid-4 (TRPV4) to aid recovery following ischemic stroke

Reed, Jennifer (University of Ottawa Heart Institute)

Exercise training in women with heart disease

Rottapel, Robert (University Health Network)

Co-PI: Billia, Filio

Epigenetic regulation of the cardiac transcriptome by RREB1 prevents cardiac hypertrophy and heart failure

Ruiz, Matthieu (Montreal Heart Institute)

Comprehensive lipidomics to identify novel players involved in the onset of cardiac manifestations of non alcoholic fatty liver disease

Schmolzer, Georg (University of Alberta)

Co-PI: Cheung, Po-Yin

Vasopressors during neonatal resuscitation of asphyxiated newborns

Schwarz, Ute (University of Western Ontario)

Role of OATP Uptake Transporters in Statin-Induced Impairment of Islet Cell Function

Shaw, Gary (University of Western Ontario)

Calcium signalling in cardiac muscle repair and fibrinolysis

So, Derek (University of Ottawa Heart Institute)

Co-PI: Van Diepen, Sean

The Canadian Cardiovascular Collaborative Myocardial Infarction - Cardiogenic Shock Initiative

Sood, Manish (Ottawa Hospital Research Institute)

Examining bleeding with concurrent clarithromycin and DOAC use: The STOP-Bleed Study

Sutendra, Gopinath (University of Alberta)

Tumor Secreted Inosine/Hypoxanthine are Novel Biomarkers that can Predict Chemotherapy-Induced Cardiotoxicity

Sweeney, Gary (York University)

A novel autophagy-deficient mouse model for investigating regulation of cardiac metabolism and sterile inflammation by adiponectin

Thavendiranathan, Paaladinesh (University Health Network)

Co-PI: Fish, Jason

Making Survivorship Matter: Novel blood biomarkers to identify cardiotoxicity risk in Women with HER2+ Breast Cancer

Trigatti, Bernardo (McMaster University)

HDL signaling in cardiomyocytes and role in protection against doxorubicin induced cardiotoxicity

Tulloch, Heather (Ottawa Heart Institute)

Psychological Profile and Intervention Needs of Patients with Spontaneous Coronary Artery Dissection

Van Spall, Harriette (McMaster University)

Virtual Clinics to Improve Quality of Care and Outcomes in Heart Failure: A Multi-Centre Randomized Controlled Trial

Vuksan, Vladimir (St. Michael's Hospital)

Administration of fruit and vegetable concentrates with blood pressure lowering properties and vascular benefits as an optimized approach to hypertension

Werstuck, Geoff (McMaster University)

Arterial Hypoxia in Diabetic Atherogenesis

Yokota, Toshifumi (University of Alberta)

Use of a T cell-derived peptide for delivery of antisense oligos to treat cardiomyopathy in muscular dystrophy