

## 2020/2021 Bourses Transitoires

**Anazodo, Udunna** (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*