



Heart & Stroke 2019-20 Grant-in-Aid Grantees

Alba, Ana (University Health Network)

Physician intuition versus model predicted prognosis in heart failure

Andrew, David (Queen's University)

Activation and opening of the channel that kills neurons during ischemia

Arora, Rakesh (University of Manitoba)

PROTein to Enhance outComes of (pre)frail paTients undergoing Cardiac Surgery — the PROTECT-CS study

Barber, Philip (University of Calgary)

The PREVENT study: a prospective longitudinal cohort study to identify biological and psychological predictors of cognitive decline in transient ischemic attack patients.

Bernatchez, Pascal (University of British Columbia)

Activating the anti-atherosclerotic properties of endothelial function: from cells to humans

Birken, Catherine (Hospital for Sick Children)

PARENT - Preventing obesity in toddlers through group based parenting intervention in primary care

Brambati, Simona Maria (Université de Montréal)

Early changes in connectivity in the language brain network as possible mediators of post-stroke aphasia recovery

Cepinskas, Gediminas (Lawson Health Research Institute)

Microvascular Dysfunction in Compartment Syndrome: Therapeutic application of Carbon Monoxide-Releasing Molecules (CORMs)

Chalifour, Lorraine (Lady Davis Institute for Medical Research)

Phthalate exposure after cardiac surgery and inflammasome activation.

Chen, S.R. Wayne (University of Calgary)

Molecular Mechanisms Underlying Cardiac Ca²⁺ Alternans

Cheskes, Sheldon (Sunnybrook Health Sciences Centre)

DOuble Sequential External Defibrillation in Refractory VF- DOSE VF Randomized Control Trial

Connolly, Stuart (McMaster University)

Prevalence of Subclinical Atrial Fibrillation in Patients with Heart Failure and the Impact on Heart Failure Hospitalization

Dakshinamurti, Shyamala (University of Manitoba)
Pulmonary Hypertension Due to Impaired Adenylyl Cyclase Activity - the role of protein nitrosylation

Dehaes, Mathieu (Université de Montréal)
Predicting neonatal compromise and neurodevelopmental outcome in severe congenital heart disease

Deng, Alan (Centre hospitalier de l'université de Montréal)
Novel etiological pathogenesis of diastolic dysfunction

Drangova, Maria (University of Western Ontario)
Dual Energy Cardiovascular Micro CT

Dukelow, Sean (University of Calgary)
The TMAT Trial: A Randomized Trial of Repetitive Transcranial Magnetic Stimulation (rTMS) and Multi-Modal Aphasia Treatment (M-MAT) for Post-Stroke Nonfluent Aphasia

Dyck, Jason (University of Alberta)
The Role of Adipose Tissue Inflammation and Lipolysis in the Pathogenesis of Heart Failure

Fiset, Céline (Université de Montréal)
Regulation of sinoatrial node function by interleukin 1 β

Flynn, Lauren (University of Western Ontario)
Development of a pro-regenerative cell delivery platform for therapeutic angiogenesis in the treatment of peripheral arterial disease

Francis, Gordon (University of British Columbia)
NonHDL-cholesterol, macrophage, and lipid-lowering drug influences on smooth muscle foam cell formation, phenotype and fate in atherosclerosis

Hardy, Daniel (University of Western Ontario)
The Impact of Perinatal 9-Tetrahydrocannabinol (9-THC) Exposure on Long-term Cardiovascular Function in the Offspring

Heit, Bryan (University of Western Ontario)
GATA2 Expression Drives MERTK Dysfunction in Pre-Atheroma Lesions

Howlett, Susan (Dalhousie University)
Impact of age, sex & frailty on the heart: HF risk and interventions

Hutchison, James (Hospital for Sick Children)
A pilot randomized controlled trial of inhaled nitric oxide in children and adults with cardiac arrest.

Jassal, Davinder (University of Manitoba)
Flaxseed in the prevention and treatment of anthracycline and trastuzumab mediated cardiotoxicity

Jickling, Glen (University of Alberta)

Hemorrhagic transformation in ischemic stroke: Molecular barrier disruption

Kapral, Moira (University of Toronto)

The association between immigration status and stroke incidence, care and outcomes

Karkouti, Keyvan (University of Toronto)

FActor REplacement in Surgery (FARES): a pilot randomized controlled trial of prothrombin complex concentrate versus frozen plasma

Kassiri, Zamaneh (University of Alberta)

Region-specific function of TIMP4 in susceptibility of the aortic wall to atherosclerotic plaque deposition and aortic aneurysm.

Krepinsky, Joan (McMaster University)

Study of follistatin as a potential novel therapeutic agent for hypertension

Larouche, Richard (University of Lethbridge)

Tracking independent mobility and movement behaviours during childhood: a multi-site longitudinal study

Lauck, Sandra (University of British Columbia)

Safe Transition Home after Transcatheter Aortic Valve Implantation Feasibility (START-F) Study

Le Gal, Gregoire (University of Ottawa)

Age-adjusted D-dimer cutoff levels to rule out deep vein thrombosis (The ADJUST-DVT Study)

Lee, Ting-Yim (Lawson Health Research Institute)

Selective Brain Cooling to Reduce Brain Injury from Ischemic Stroke

Li, Hongbin (University of British Columbia)

Molecular Basis of Titin's Role in Myocardial Stiffness Regulation and Cardiomyopathy

Liu, Peter (University of Ottawa Heart Institute)

Exosomal Troponin in Heart Failure – A Biomarker and A Biomodulator?

Mah, Catherine (Dalhousie University)

The role of retailers in dietary risk: A mixed-method observational study of the store food environment

Mandell, Daniel (University Health Network)

Investigation of Acute Microinfarcts as a Biomarker of Cerebral Small Vessel Disease

Manhiot, Cedric (Hospital for Sick Children)

Assessing the association between the spatiotemporal distribution of Kawasaki disease and environmental factors: discovering clues into the elusive etiology of a complex disease

Marsden, Philip (University of Toronto)

Post-transcriptional regulation of endothelial gene expression

Mehta, Sanjay (London Health Sciences Centre)
Intracellular Mechanisms and Clinical Relevance of Microvascular Endothelial Cell Barrier Dysfunction in Sepsis

Meltzer, Jed (Baycrest Centre for Geriatric Care)
Brain stimulation in stroke recovery: Linking short-term physiological effects with long-term benefits.

Min, Wei-Ping (London Health Sciences Centre)
The role of DLC1 in cardiac ischemia-reperfusion injury

Ni, Heyu (St. Michael's Hospital)
Apolipoprotein A-IV and platelet function: Novel links with thrombosis, inflammation, and atherosclerosis

Noiseux, Nicolas (Centre hospitalier de l'université de Montréal)
Creating new opportunities for the transplantation of heart Donated after Circulatory Death by combining novel pharmacological treatments and ex vivo perfusion platform

Pare, Guillaume (McMaster University)
Polygenic Risk Scores for the Prediction of Early Coronary Artery Disease

Peng, Tianqing (University of Western Ontario)
Prevention of doxorubicin-induced cardiac injury with nicotinamide riboside

Pryzdial, Ed (Canadian Blood Services)
Hemostasis modulation by viruses

Rayner, Katey (University of Ottawa Heart Institute)
Balance of inflammatory cell death and resolution pathways in atherosclerosis

Renoux, Christel (McGill University)
Anticoagulants oraux et prévention de la démence chez les patients atteints de fibrillation auriculaire : étude de cohorte en population générale.

Rivard, Léna (Montreal Heart Institute)
Comparison of a clinical monitoring strategy vs electrophysiology-guided algorithmic approach to patient management after TAVI: a Bayesian randomized trial (COME-TAVI)

Rodrigues, Brian (University of British Columbia)
Role of cardiac lipoprotein lipase in diabetic heart disease.

Roifman, Idan (Sunnybrook Health Sciences Centre)
Variation in initial non-invasive cardiac diagnostic testing strategies for stable coronary artery disease in Ontario

Rossi, Fabio (University of British Columbia)
Identification and therapeutic potential of pericyte progenitors

Sanatani, Shubhayan (University of British Columbia)
Improving Our Understanding of CPVT: Examining Risk and Treatment

Saw, Jacqueline (University of British Columbia)
Canadian Spontaneous Coronary Artery Dissection Study

Sheffield, William (McMaster University)
Novel strategies to combat thrombogenic activated factor XI

Silasi, Gergely (University of Ottawa)
Evaluating the impact of microinfarcts on motor learning and the therapeutic benefit of remote ischemic conditioning

Singh, Sunita (University of Toronto)
Efficacy, mechanisms and safety of SGLT2 inhibitors in kidney transplant recipients: The INFINITI study

Staples, John (University of British Columbia)
Motor vehicle crash risk after cardioverter-defibrillator implantation: A population-based evaluation

Thériault, Sébastien (Université Laval)
Identification of novel therapeutic targets for calcific aortic valve stenosis using integrative genomics

Thompson, Jennifer (University of Calgary)
Lipogenic memory of prenatal exposures and early-onset CVD risk

Trigatti, Bernardo (McMaster University)
Targeting interleukin-15 signaling for protection against to reduce experimental atherosclerosis in mice.

Wang, Yu Tian (University of British Columbia)
Development of Positive GluN2A subunit containing NMDA receptor modulators as novel neuroprotectants for stroke

West, Lori (University of Alberta)
'Mind the Gap': Redefining opportunities in ABO-incompatible heart transplantation

Winship, Ian (University of Alberta)
Collateral flow augmentation during ischemic stroke via phosphodiesterase inhibition

Young, Howard (University of Alberta)
Mechanisms of SERCA Inhibition and Activation in Dilated Cardiomyopathy

Yu, Amy (Sunnybrook Health Sciences Centre)
Determining sex disparities In Stroke Care and Outcomes to optimize recovery (DISCOVER)

Zha, Xiaohui (Ottawa Health Research Institute)
Cholesterol Regulates Macrophage Inflammation by Altering Cellular Metabolism