



Cœur + AVC

Lauréats des subventions de recherche 2024-2025

Cœur + AVC est heureuse d'annoncer les lauréats des subventions de recherche 2024-2025!

Pour le concours 2024/25 (automne 2023) :

- Cœur + AVC a reçu **187 demandes de subvention de recherche**.
- À la suite des processus rigoureux d'examen par les pairs et du budget de Cœur + AVC, les **70 demandes ayant reçu la meilleure cote** ont été financées. Cela représente un taux de réussite de 37 % et un investissement total de 18 476 064 \$.
- Chaque projet financé a une durée moyenne de 2.97 ans et reçoit un montant moyen de 263 943.77 \$.
- Lors de la saison 2024-25 de l'examen par les pairs, plus de 150 membres de la communauté de la recherche ont donné de leur temps et de leur expertise au processus d'examen par les pairs.

Abdel-Qadir, Husam (Women's College Hospital) Co-PI: Amir, Eitan
JUdicious Surveillance for Trastuzumab Induced Cardiotoxicity in the First Year (JUSTIFY): a Randomized Controlled Trial

Allen, Bruce (Université de Montréal)
Biased signaling by nuclear AT1Rs in cardiac cells

Anthony, Samantha (Hospital for Sick Children)
The iPeer2Peer support mentorship program for young adult patients with heart failure: A feasibility study

Barber, Philip (University of Calgary)
The Streamlined and Efficient Core and OcclusioN Diagnosis of Stroke (SECONDS) Study

Belley-Cote, Emilie (McMaster University) Co-PI: Whitlock, Richard
SUNDANCE: SUBclinical valve thrombosis iN patients with surgical bioprosthetic aortic valve replacement - An imaging substudy of the DANCE trial

Bherer, Louis (Montreal Heart Institute)
Acting before it's too late: Investigating the impact of brain pulsatility and cerebral vascular lesions on cognition and the benefits of exercise in older adults with cardiovascular risk factors.

Cameron, Jill (University of Toronto)
A Qualitative Study of Person and Family Centered Care across the Stroke Care Continuum

Clemens, Kristin (University of Western Ontario) Co-PI: Moist, Louise
Closing cardiovascular care gaps in women with diabetes

Cobey, Kelly (University of Ottawa Heart Institute)
Implementing open science in the cardiovascular research community: Developing a consensus-driven action plan

Conway, Edward (University of British Columbia)
Molecular characterisation of bridges between coagulation and metabolism

Crespo-Garcia, Sergio (Université de Montréal)
Faulty perivascular metabolism predisposing to microvascular complications

Cunningham, Charles (Sunnybrook Health Sciences Centre)
Imaging the Effects of Semaglutide on Heart-Brain Lactate Shuttling

Czubryt, Michael (University of Manitoba)
Targeting Myofibroblast Metabolism in Cardiac Fibrosis

Dallaire, Frederic (Université de Sherbrooke)
The FREQUENCY study 2: Performance of the prenatal diagnosis of congenital heart diseases

English, Shane (Ottawa Hospital - Civic Campus) Co-PI: Presseau, Justin
Establishing an International Core Outcome Set for subarachnoid hemorrhage (SAH) – The What, When and How to Measure Outcomes in SAH Research

Fedida, David (University of British Columbia)
Understanding gain-of-function and loss-of-function IKs potassium channel arrhythmia phenotypes

Forkert, Nils Daniel (University of Calgary) Co-PI: Wilms, Matthias
Development of a computer-aided trial design for treatment efficacy evaluation in acute ischemic stroke

Friedberg, Mark (Hospital for Sick Children)
Right ventricular pressure-loading causes right ventricular stiffening and failure through a mechanotransduction program of extracellular matrix remodeling and microvascular endothelial to mesenchymal

GENEST, Jacques (McGill University Health Center Research Institute)
LOW-DOSE DOCETAXEL: POTENTIAL ANTI-ATHEROSCLEROSIS DRUG

Goldstein, Benjamin (Centre for Addiction and Mental Health)
Arterial Stiffness in Adolescents: Does the Heart Beat the Brain?

Gramolini, Anthony (University of Toronto)
Mitochondrial Dysfunction in Cyanotic Heart Disease: From Discovery to Mechanism to Personalized Medicine

Hoffman, Lisa (Lawson Research Institute)
Angiotensin-1 (Ang-1) enhances the efficacy of microdystrophin (uDys) replacement therapy for Duchenne Muscular Dystrophy (DMD)-related cardiomyopathy

Honjo, Osami (Hospital for Sick Children) Co-PI: Husain, Mansoor
Reducing the risk of complex pediatric cardiac surgery through metabolic modulation

Jickling, Glen (University of Alberta)
Enhanced Recanalization in Ischemic Stroke

Joundi, Raed (McMaster University)
Understanding COgnitive decline after stroke through discoVERy of inflammatory biomarkers (UNCOVER)

Kassiri, Zamaneh (University of Alberta)
Role of Disintegrin and Metalloproteinase-17 in the contribution of smooth muscle cells to atherosclerosis

Katsanos, Aristeidis (McMaster University) Co-PI: Sharma, Mukul (Mike)
Covert cerebrovascular disease in patients with bileaflet aortic mechanical valves

Keir, Daniel (University of Western Ontario)
Intensity-domain specific exercise training in coronary artery disease (DOSE-EX-CAD)

Kirton, Adam (University of Calgary) Co-PI: Carlson, Helen
Fingerprinting individual differences in developmental and interventional neuroplasticity in pediatric stroke

Kizhakkedathu, Jayachandran (University of British Columbia)
Novel inhibitors to destabilize immune complex formation in the treatment of heparin-induced thrombocytopenia

Ko, Dennis (University of Toronto)
IMprove the Prevention And Cardiovascular Treatment in patients with Chronic Kidney Disease: A comprehensive evaluation of medical therapy using target trial emulation (IMPACT-CKD)

Lee, Douglas (Toronto General Hospital)
Predicting Readmission Outcomes using Biostatistical Evaluation and Machine Learning (PROBE ML)

Leong-Poi, Howard (St. Michael's Hospital)
Sepsis and the Heart: Novel Markers and Targets

Little, Jonathan (University of British Columbia) Co-PI: Gibala, Martin
Exercise Snacks in Obesity: A Pilot RCT

MacIntosh, Bradley (University of Toronto)
Imaging to CharacterisE Brain hEmoRrhaGe (ICEBERG)

Mak, Susanna (University of Toronto)
Cardiovascular Physiology of the Active Stand Test

Mansfield, Avril (University Health Network)
Optimal intensity of reactive balance training post-stroke

Marquis-Gravel, Guillaume (Montreal Heart Institute) Co-PI: Lordkipanidzé, Marie
Assessing Pharmacokinetics and Pharmacodynamics of daily Enteric-coated Aspirin in patients with Stable Diabetes: APPEASED study Phase 2

McDermott, John (York University)
Regulation and Function of Cardiac Transcription Factor Networks

Mequanint, Kibret (University of Western Ontario)
Clinically and physiologically relevant engineered human vascular tissues as models for ectopic calcification and in-stent restenosis studies and therapeutic agent testing

Milot, Marie-Helene (Université de Sherbrooke)
Can stimulating the tongue help improve upper limb motor function and brain plasticity in individuals at the chronic stage of a stroke: a randomized controlled trial

Monnier, Philippe (Toronto Western Hospital)
SKI-1 inhibition prevents blood brain barrier disruption following stroke

Oudit, Gavin (University of Alberta)
Pre-Clinical Model of COVID and Long COVID: Effects of Sex, Aging and Comorbidities

Ouimet, Mireille (University of Ottawa Heart Institute)
Enhancing Lipophagy to Reverse Atherosclerosis

Patel, Vaibhav (University of Calgary)
A single-cell serenade into the role of Angiotensin 1-7 in thoracic aortic aneurysm and cellular dynamics

Phillips, Aaron (University of Calgary)
Autonomic neurorehabilitation with chronic epidural electrical stimulation to treat transient hypertension after spinal cord injury

Pigeyre, Marie (McMaster University)
Metabolic and Inflammatory Pathways Linking Adiposity to Cognitive Decline: the Canadian Alliance of Healthy Hearts and Minds Biomarker Study

Poppe, Alexandre (Université de Montréal) Co-PI: Stapf, Christian
EASI-TOC: Endovascular Acute Stroke Intervention-Tandem OCclusion: a trial of acute cervical internal carotid artery stenting during endovascular thrombectomy for anterior circulation stroke

Proctor, Spencer (University of Alberta)
Efficacy of novel serum-free media clones of chP3R99 mAb against atherogenesis.

Radisic, Milica (University of Toronto) Co-PI: Epelman, Slava
Harnessing the power of resident macrophages to promote perivascular niche formation in cardiac tissues

Roig, Marc (McGill University)

Preventing post-stroke cognitive impairment and dementia with multimodal exercise training

Rungta, Ravi (Université de Montréal)

The Role of Pericyte Calcium Signaling in Microinfarct Pathophysiology

Sood, Manish (Ottawa Hospital Research Institute) Co-PI: Hundemer, Gregory

Re(de)fining CKD to reduce cardiovascular disease in young adults

Tang, Ada (McMaster University) Co-PI: Quigley, Adria

Optimizing Recruitment to Drive Equitable Research opportunity in stroke rehabilitation trials in Canada - The ORDER Study

Thanassoulis, George (McGill University Health Center Research Institute)

Co-PI: Engert, James

Genomics of Aortic Stenosis - An International Collaboration

Thompson, Jennifer (University of Calgary)

Estrogen receptor-mediated sex differences in vascular responses to new generation bisphenols

Thorin, Eric (Montreal Heart Institute)

Vascular endothelial cell senescence drives cognitive impairment in atherosclerotic male mice only

Tibbits, Glen (Simon Fraser University)

Role of SK ion channel variants in atrial fibrillation

Tijssen, Janice (University of Western Ontario)

Pediatric Out-of-Hospital Cardiac Arrest Resuscitation: Evaluation of IM Epinephrine (The PRIME-1 Trial)

Tulloch, Heather (Ottawa Heart Institute)

Survey of Life after an Acute Cardiac Event: SOLACE Study

Udell, Jacob (Women's College Hospital)

SODium gLUcose co-transporter-2 inhibitors (SGLT2i) to PreVEnt Heart Failure (SOLVE-HF) - A pilot RCT

Vyas, Manav (St. Michael's Hospital) Co-PI: Bhat, Venkat

Depression And Suicide After Stroke (DASAS)

Walsh, Jeremy (McMaster University)

The effect of exogenous β -hydroxybutyrate on cerebral blood flow in adults with subjective cognitive decline

Wang, Ying (University of British Columbia)

Characterizing the inflammatory pathways targeted by colchicine to better repurpose drugs for coronary artery disease

Welsh, Donald (University of Western Ontario)

Functionally Biased Vasomotor Responses in Resistance Arteries: Implications to Blood Flow Control.

Wen, Shi Wu (Ottawa Hospital Research Institute) Co-PI: Lougheed, Jane

Association of prenatal glucose levels with congenital heart disease in offspring: a large population based retrospective cohort study

Winship, Ian (University of Alberta)

Targeting progesterone signaling in leukocytes to improve outcome after stroke

Yokota, Toshifumi (University of Alberta)

Enhancing Cardiac Delivery of Antisense Oligonucleotides in Duchenne Muscular Dystrophy Using DG9 Peptide

Zhang, Dawei (University of Alberta)

Deciphering the role and underlying mechanisms of smooth muscle cell MT1-MMP/MMP14 in the progression of atherosclerosis

Zhang, Shetuan (Queen's University)

Characterization and rescue of long QT causing mutant hERG potassium channels