

2002/2003 Research Fellowship

* - Applicants funded via the HSFC/CIHR Health Research Partnership Fund.

- **Aitken, Susan-Marie** (Molecular & Cell Biology, University of California)
Cystathionine beta-synthase: mechanism and structure-function studies of homocystinuria-associated mutants.
Supervisor: Kirsch, Jack F.
- ***Aarts, Michelle M.** (Cellular & Molecular Neuroscience, Toronto Western Hospital)
Modulation of excitotoxicity by protein-protein interactions at the post-synaptic density.
Supervisor: Tymianski, Michael
- **Arnot, Michelle I.** (Physiology & Biophysics, University of Calgary)
Modulation of N-type calcium channels by G-protein beta subunit isoforms.
Supervisor: Zamponi, Gerald W.
- **Bedard, Karen Joan** (Biochemistry, University of Alberta)
Calreticulin in cardiac development and pathology.
Supervisor: Michalak, Marek
- **Beletsky, Vadim Y.** (Clinical Neurological Sciences, John P. Robarts Research Institute)
Heart and Stroke Scientific Research Corporation of Canada Award
Doppler or angiography prior to carotid surgery.
Supervisor: Spence, J. David
- ***Benisty, Jacques** (Surgery & Cell Biology, Children's Hospital)
Angiogenic growth factors in pulmonary vascular disease.
Supervisor: Folkman, Judah
- **Bouzeghrane, Fatih** (Biologie cellulaire de l'hypertension, IRCM)
Rôle de l'intégrine dans les processus d'adhésion des fibroblastes cardiaques de rat adulte après stimulation in vivo par des peptides vasoactifs
Supervisor: Thibault, Gaétan
- **Champagne, Maud C.M.** (Medicine, Institut Universitaire de Gériatrie de Montréal)
[Focus on Stroke Training Initiative Award](#)
Etats mentaux et troubles de la communication chez les cérébrolésés droits.
Supervisor: Joannette, Yves
- **Chilton, E. Lisa** (Physiology and Biophysics, University of Calgary)
Electrophysiological studies of membrane potential of cardiac fibroblasts and myofibroblasts.
Supervisor: Giles, Wayne R.
- **Cottrell, Trevor G.** (Physiology, Queen's University)
Mechanisms of orexin-mediated regulation of cardiovascular control in the nucleus tractus solitarius.
Supervisor: Ferguson, Alastair
- **Coutts, Shelagh B.** (Clinical Neurosciences, Foothills Hospital)
Heart and Stroke Scientific Research Corporation of Canada Award
Vascular imaging of acute stroke for identifying occlusion and nominal perfusion (vision).
Supervisor: Buchan, Alastair M.
- **Demers, Philippe** (Cardiothoracic Surgery, Stanford University School of Medicine)
Évaluation prospective à long terme du traitement endovasculaire avec endoprothèse couverte des anévrismes de l'aorte thoracique.
Supervisor: Miller, Craig

- **Dickhout, Jeffrey Gordon** (Physiology, Hamilton Civic Hospitals Research Centre)
Mechanisms of hyperhomocysteinemia-induced vascular dysfunction and their interactions with hypertension.
Supervisor: Austin, Richard C.
- **Ehrlich, Joachim** (Research Center, Montreal Heart Institute)
Ionic mechanisms underlying arrhythmogenicity of pulmonary veins.
Supervisor: Nattel, Stanley
- **Ellis, Anthie** (Pharmacology & Therapeutics, University of Calgary)
Heart and Stroke Scientific Research Corporation of Canada Award
The role of hydrogen peroxide on endothelial dysfunction in type II diabetes.
Supervisor: Triggle, Christopher R.
- **Elmoselhi, Adel B.** (Medicine, University of Toronto)
[HSFC/fund/Rx&D Award](#)
Role of endothelin-1 in vascular tone and growth: studies in transgenic conditional overexpression targeted to smooth muscle.
Supervisor: Stewart, Duncan J.
- **Fedak, Paul W.** (Division of Cardiac Surgery, University of Toronto)
Experimental cardiomyocyte transplantation to improve left ventricular function in chronic decompensated mitral regurgitation.
Supervisor: Weisel, Richard D.
- **Garenc, Christophe** (Biology, Lausanne University)
Role of PPARs in lipase gene expressions. Physiopathological and therapeutic consequences.
Supervisor: Desvergne, Béatrice
- **Ghanam, Khadija** (Pharmacology, University of Alberta)
Mechanisms of estrogen-induced cardioprotection.
Supervisor: Clanachan, Alexander S.
- **Gholam, Chris Kiani** (Division of Cardiovascular Surgery, Toronto General Hospital)
Cell transplantation for the treatment of diabetic cardiomyopathy.
Supervisor: Li, Ren-Ke
- **Gilbert, Robert W.** (Pharmacology, Dalhousie University)
[Focus on Stroke Training Initiative Award](#)
Stroke, gene expression and neuroprotection: targets for treatment.
Supervisor: Robertson, Harold
- **Grand'Maison, Anne** (Hematology, Ottawa Hospital Civic Campus)
Pharmacokinetic study of subcutaneous therapeutic low-molecular-weight-heparin in obese patients with acute coronary syndrome: a Traditional pharmacokinetic study in parallel with a population-based pharmacokinetic study.
Supervisor: Wells, Philip S.
- **Grenon, Marlene** (Endocrine-Hypertensive Division, Brigham and Women's Hospital)
The effects of simulated weightlessness on the cardiovascular system.
Supervisor: Williams, Gordon Harold
- **Han, Wei** (Pharmacology & Therapeutic, McGill University)
Characterization of the molecular nature of transient outward current: protein interactions of Kv4.4.
Supervisor: Shrier, Alvin
- **Heckman, George A. W.** (Medicine, McMaster University)
Development and evaluation of a CHF care map for long-term care.
Supervisor: McKelvie, Robert S.

- ***Hemmings, Denise G.** (Perinatal Research Centre, University of Alberta)
Endothelial cell dysfunction in preeclampsia.
Supervisor: Davidge, Sandra T.
- ***Huang, Yue-Qiao** (Brain and Behaviour, Hospital for Sick Children)
NMDA receptor regulation by Src: A role of PSD-95.
Supervisor: Salter, Michael W.
- ***Jackson, Michael F.** (Physiology, University of Toronto)
Mechanisms underlying the PKG-independent regulation of AMPA receptors by cGMP.
Supervisor: MacDonald, John F.
- ***Jain, Neelesh K.** (Surgery, University of Toronto)
Hemodynamic forces prime the NF- κ B signal transduction pathway to initiate human atherosclerosis.
Supervisor: Cybulsky, Myron
- **Kennedy, James** (Clinical Neurosciences, University of Calgary)
[Focus on Stroke Training Initiative Award](#)
Patient preferences for outcome with thrombolysis following acute ischemic stroke.
Supervisor: Buchan, Alastair M.
- **Kiss, Robert S.** (Lipoprotein & Atherosclerosis, University of Ottawa Heart Institute)
Incidence of cellular cholesterol efflux deficiency in familial hypoalphalipoproteinemia.
Supervisor: Marcel, Yves L.
- **Kohen Avramoglu, Rita L.** (Clinical Biology, Hospital for Sick Children)
Mechanisms of VLDL overproduction in insulin resistance.
Supervisor: Adeli, Khosrow
- **Kong, Jennifer Y.** (Medicine, Jack Bell Centre)
Cell survival of macrophages by oxidized LDL is by a PI3K-dependent pathway in atherosclerosis.
Supervisor: Steinbrecher, Urs P.
- **Lagneux, Caroline** (Immunology, Montreal General Hospital)
[Focus on Stroke Training Initiative Award](#)
The genetic dissection of stroke in the mouse model.
Supervisor: Skamene, Emil
- **Leary, Scot C.** (Neurology, Montreal Neurological Institute)
Genetic and functional basis of cytochrome C oxidase deficiency in fatal infantile cardiomyopathy.
Supervisor: Shoubridge, Eric A.
- **Lekas, Micheal C.** (Cardiology, St. Michael's Hospital)
Heart and Stroke Scientific Research Corporation of Canada Award
Interactions between angiotensin-1 and angiotensin-2 in neovascularization of the ischemic hindlimb.
Supervisor: Stewart, Duncan J.
- **Leung, Nathalie** (Medicine, Toronto General Hospital)
[HSFC/fund/Rx&D Award](#)
Importance of substrate delivery and hepatic hyperinsulinemia in VLDL production in insulin resistance.
Supervisor: Lewis, Gary F.
- **Linkins, Lori-Ann** (Medicine, McMaster University)
Heart and Stroke Scientific Research Corporation of Canada Award
Anticoagulant effect of heparin derivatives.
Supervisor: Weitz, Jeffrey I.

- **Liu, Lixin** (Physiology & Biophysics, University of Calgary)
P38 MAP Kinase and neutrophil chemotaxis.
Supervisor: Kubes, Paul
- **Loucks, Eric B.** (Health & social behaviour, Harvard School of Public Health)
Cardiovascular biomarkers as measures of health for the social determinants of health.
Supervisor: Berkman, Eric B.
- **Maj, Mary C.** (Metabolism Research Program, Hospital for Sick Children)
Control of oxygen free radical production by mitochondria mediated through the phosphorylation of complex I subunits.
Supervisor: Robinson, Brian H.
- **Mackova, Martina** (Medical Microbiology & Immunology, University of Alberta)
Mechanisms of placental endothelial cell death and survival in intrauterine growth restriction.
Supervisor: Guilbert, Larry J.
- **Maruyama, Yoshiaki** (Pharmacology & Therapeutics, University of Calgary)
TRPC heteromultimers form the non-selective cation channel of resistance arterial smooth muscle.
Supervisor: Cole, William C.
- **McClelland, Grant B.** (Biology, Queen's University)
Heart and Stroke Scientific Research Corporation of Canada Award
Role of angiotensin II signaling in controlling fatty acid metabolism in cardiac hypertrophy.
Supervisor: Moyes, Christopher D.
- **McDonald, Paul C.** (BC Cancer Agency, Jack Bell Research Centre)
Role of integrin-linked kinase in vascular smooth muscle cell proliferation and migration.
Supervisor: Dedhar, Shoukat
- ***Miner, Steven E. S.** (Medicine, University of Toronto)
Transcardiac L-arginine kinetics and nitric oxide synthase activity.
Supervisor: Parker, John D.
- **Morabito, Dominique** (Pediatrics & Pharmacology, University of Alberta)
Adipocytokine control of fatty acid oxidation in the heart.
Supervisor: Lopaschuk, Gary D.
- **Morrison, Katherine M.** (Medicine, McMaster University)
[4th ICPC Fellowship Award](#)
Atherosclerosis birth cohort: The ABC study.
Supervisor: Yusuf, Salim
- **O'Donnell, Martin** (Medicine, McMaster University)
[Focus on Stroke Training Initiative Award](#)
Improving anticoagulant control in patients with erratic control by daily vitamin K supplementation.
Supervisor: Hirsh, Jack
- ***O'Leary, Deborah** (Kinesiology, University of Western Ontario)
Gender and central autonomic control in stroke.
Supervisor: Shoemaker, J. Kevin
- **Pritzker, Laura** (Engineered Biomaterials, University of Washington)
Role of osteoprotegerin in endothelial cell survival and angiogenesis.
Supervisor: Giachelli, Cecilia
- **Pu, Qian** (Experimental Hypertension, IRCM)
Vascular remodeling of resistance arteries in hypertension and antihypertensive treatment.
Supervisor: Schiffrin, Ernesto

- **Remy-Zolghadri, Murielle** (Médecine, CHUQ)
Approche originale de reconstruction vasculaire par l'utilisation de progéniteurs cellulaires.
Supervisor: Auger, François A.
- **Rupert, Jim** (Pathology, University of British Columbia)
Heart and Stroke Scientific Research Corporation of Canada Award
Genetic risk factors for cardiovascular disease in Native Americans.
Supervisor: Devine, Dana V.
- ***Sahlas, Demetrios James** (Neurology, Sunnybrook and Women's Health Sciences Centre)
Brain mapping and biomarkers in poststroke dementia.
Supervisor: Black, Sandra E.
- **Sharma, Parveen** (Medical Research, University of Toronto)
Sites of interaction between phospholamban and Ca²⁺ pump.
Supervisor: MacLennan, David H.
- **Shiraishi, Mitsuya** (Medicine, University of Calgary)
Smooth muscle regulatory mechanisms in renal afferent and efferent arterioles.
Supervisor: Loutzenhiser, Rodger D.
- ***Skaro, Anton** (Surgery & Pathology, Dalhousie University)
Cytolytic mechanisms in the pathogenesis of aortic allograft arteriosclerosis.
Supervisor: Hirsch, Gregory M.
- **Spaak, Jonas** (Cardiology, Mount Sinai Hospital)
Heart and Stroke Scientific Research Corporation of Canada Award
Neural and humoral cardiovascular control in human hypertension and heart failure.
Supervisor: Floras, John S.
- **Temsah, Rana** (Laboratory of Cardiac Growth & Differentiation, Clinical Research Institute of Montreal)
The CNC family of transcription factors and oxidative stress in the heart.
Supervisor: Nemer, Mona
- **Thorneloe, Kevin S.** (Pharmacology, University of Vermont)
Regulation of the BK channel by its modulatory beta 1 subunit.
Supervisor: Nelson, Mark T.
- **Ustinova, Ksenia Iv.** (Institut de réadaptation de Montréal, Université de Montréal)
[Focus on Stroke Training Initiative Award](#)
The control of posture and bilateral limb movements in stroke patients.
Supervisor: Levin, Mindy F.
- **Uwabo, Jiro** (Medicine, University of Montreal)
Heart and Stroke Scientific Research Corporation of Canada Award
Molecular genetics of hypertension.
Supervisor: Hamet, Pavel
- **Voisine, Pierre** (Division of Cardiothoracic Surgery, Beth Israel Deaconess Medical Center)
Effects of cardiopulmonary bypass and cardioplegia on coronary and peripheral microvascular reactivity.
Supervisor: Sellke, Frank
- **Walker, John B.** (Medicine, McMaster University)
Differential regulation of thrombomodulin-dependent activation of TAFI and protein C.
Supervisor: Bajzar, Laszlo

- **Wright, Christopher** (Medicine, University of Calgary)
Hemodynamics of faintlets in rabbits.
Supervisor: Tyberg, John V.
- **Zhu, Dong Ya** (Physiology & Biophysics, University of Calgary)
[Focus on Stroke Training Initiative Award](#)
Nitric oxide-mediated down-regulation of GABA_A receptor function following cerebral ischemia.
Supervisor: Lu, YouMing