

1999/2000 Research Fellows

* *Applicants who are funded via the MRC/HSFC Partnership Challenge Fund.*

- **Alter, David A.** (Medicine, Sunnybrook Health Science Centre.)
Access to coronary angiography in Ontario.
Supervisor: Naylor, C. David
- * **Anderson, Christopher M.** (Neurology, University of California, San Francisco)
Mechanisms and regulation of CNS glutamate transport and neurotoxicity.
Supervisor: Swanson, Raymond A.
- **Asahi, Michio** (Medical Research, University of Toronto)
Sites of interaction between phospholamban and the cardiac calcium pump.
Supervisor: MacLennan, David H
- **Azzi, Mounia** (Biochimie, Université de Montréal)
Déterminants moléculaires et spécificité pharmacologique des agonistes inverses.
Supervisor: Bouvier, Michel
- **Bernier, Sylvie** (Medicine, Brigham and Women's Hospital)
Etude des effets de la phosphorylation de la eNOS sur sa regulation et ses fonctions intracellulaires.
Supervisor: Michel, Thomas
- **Bouley, Richard** (Renal Unit, Massachusetts General Hospital)
Etude du mecanisme de desensibilisation du recepteur V2 de la vasopressine et des interactions recepteur V2-proteines intracellulaires.
Supervisor: Ausiello, Dennis
- * **Carpentier, André** (Medicine, The Toronto Hospital-General Division)
Investigation of the mechanisms of VLDL-apolipoprotein B100 overproduction in insulin resistant states.
Supervisor: Lewis, Gary F.
- * **Carvalho-Tavares, Juliana** (Physiology & Biophysics, University of Calgary)
Molecular mechanisms underlying leukocyte recruitment in brain microvasculature.
Supervisor: Kubes, Paul
- **Chauhan, Vijay S.** (Medicine, London Health Sciences Centre)
Dynamic adaptation of the QT interval in long QT syndrome.
Supervisor: Krahn, Andrew D.
- * **Demaerschalk, Bart M.** (Clinical Neurological Sciences, University of Western Ontario)
The impact of an evidence-based stroke educational intervention on clinical outcomes.
Supervisor: Hachinski, Vladimir C.
- **Deschenes, Isabelle** (Medicine, John Hopkins University)
Motions in the external pore of the sodium channel probed by paired cysteine mutagenesis and fluorescent labeling.
Supervisor: Tomaselli, Gordon F.
- * **Ding, Hao** (Molecular & Cellular Biology, Samuel Lunefeld Research Institute)
Neovascularization in cerebral ischemia.
Supervisor: Guha, Abhijit
- **Duriez, Patrick J.** (Pathology & Laboratory Medicine, St. Paul's Hospital)
Role of Notch4 during endothelial apoptosis.
Supervisor: Karsan, Aly

- * **Faughnan, Marie E.** (Medicine, St. Michael's Hospital)
Genetic mutations and pulmonary arteriovenous malformations.
Supervisor: Hyland, Robert H.
- **Frank, Philippe G.** (Molecular Pharmacology, Albert Einstein College of Medicine)
Role of caveolin in the development of coronary artery disease.
Supervisor: Lisanti, Michael P.
- **Gratton, Jean-Philippe** (Pharmacology, Yale University)
Role of caveolin in endothelial nitric oxide synthase regulation.
Supervisor: Sessa, William C.
- * **Hill, Michael D.** (Neuroscience, University of Calgary)
Validation of the Alberta Stroke Program Early CT Score (ASPECTS) in patients treated with rtPA for acute stroke: Early prediction of outcome using the Canadian Activase for Stroke Effectiveness Study (CASES) database.
Supervisor: Buchan, Alastair M.
- * **Ho, Warren C.** (Playfair Neuroscience Unit, University of Toronto)
Somastostatin receptor Type 2 expression following transient cerebral ischemia.
Supervisor: Eubanks, James H.
- **Huang, Weei-Yuarn** (Medicine, Harvard Medical School)
Regulation of gene expression in load induced cardiac hypertrophy in vitro.
Supervisor: Izumo, Seigo
- **Iihara, Koji** (Neuroprotection Laboratory, The Toronto Hospital Western Division)
Cellular mechanisms of brain protection by hypothermia and intravenous anesthetics.
Supervisor: Tymianski, Michael
- **Intengan, Hope D.** (Metabolic Research Unit, University of California at San Francisco)
Regulation of endothelial nitric oxide synthase gene expression by mechanical strain.
Supervisor: Gardner, David G.
- * **Jong, Philip** (Institute for Clinical Evaluative Sciences, Sunnybrook Health Science Centre)
Long-term mortality and morbidity in patients with left ventricular dysfunction.
Supervisor: Naylor, C. David
- * **Kahr, Walter** (Pathology & Molecular Medicine, McMaster University)
Characterization of the platelet enzyme defect in the Quebec platelet disorder.
Supervisor: Hayward, Catherine P.
- **Lee, Agnes** (Medicine, Hamilton Civic Hospitals)
Thrombosis management in high risk patients.
Supervisor: Weitz, Jeffrey I.
- **Li, Ronald A.** (Medicine, John Hopkins University)
Reversal of electrical defects in heart failure using adenoviral gene transfer.
Supervisor: Marban, Eduardo
- **Liaw, Patricia C.Y.** (Cardiovascular Biology, Howard Hughes Medical Institute)
Plasma endothelin cell protein C receptor: structure, function, and mechanism of release.
Supervisor: Esmon, Charles
- **Liu, Qingde** (Center of Hemostasis and Thrombosis, Beth Israel Deaconess Medical Centre)
Protein histidine phosphorylation in platelet activation.
Supervisor: Furie, Barbara

- **Longnus, Sarah L.** (Medicine, Beth Israel Deaconess Medical Center)
The role of calcineurin-NFAT signaling in cardiac hypertrophy.
Supervisor: Izumo, Seigo
- **Lu, Wei-Yang** (Physiology, University of Toronto)
Mechanisms for acute regulation of NMDA receptor functions by neuropeptides and sigma-ligands.
Supervisor: MacDonald, John F.
- **Magga, Jarkko N.** (Physiology & Biophysics, University of Calgary)
Effects of natriuretic peptides on cardiac pacemaker cells.
Supervisor: Giles, Wayne R.
- * **Mallidi, Hari** (Surgery, University of Toronto)
Bioengineered tissue grafts to improve ventricular function in a porcine infarct model of heart failure.
Supervisor: Weisel, Richard D.
- **Massaeli, Hamid** (Cardiovascular Research, University of Toronto)
The role of apolipoprotein D in vascular smooth muscle cell motility.
Supervisor: Rabinovitch, Marlene
- **McLeod, Anne G.** (Hematology/Oncology, Brigham and Women's Hospital)
Development of conformation-specific von Willebrand factor antibodies.
Supervisor: Handin, Robert
- **Mehta, Shamir** (Medicine, McMaster University)
An international, prospective, randomized comparative trial of strategies of routine angiography and revascularization versus conservative therapy in acute myocardial ischemia without ST elevation.
Supervisor: Yusuf, Salim
- **Methot, Danielle** (Pathology, University of Washington)
Function of the caspase pathway in cardiovascular death.
Supervisor: Schwartz, S.M.
- **Munk, Andrew** (Molecular Biology, Pasteur Institute-Paris)
Regulation of alkali myosin light-chain gene expression.
Supervisor: Buckingham, Margaret
- **Murdoch, Susan J.** (Medicine, University of Washington)
The role of PLTP in the transport of lipid from cells to HDL
Supervisor: Albers, John Joseph
- * **Murray, Christine** (Institute for Biological Sciences, National Research Council)
Reversion to fetal programs of gene expression following stroke.
Supervisor: Morley, Paul
- **Nagai, Yoshihiko** (Physiology, McGill University)
Nonlinear dynamics of reentrant arrhythmias: experiment and theory.
Supervisor: Glass, Leon
- **Ni, Heyu** (Pathology, Harvard University)
Adhesion molecules in platelet adhesion and thrombus formation.
Supervisor: Wagner, Denisa
- **Oguogho, Anthony** (Pharmacology & Therapeutics, University of Calgary)
Mechanism of vasoactive actions of oxidized low density lipoprotein.
Supervisor: Triggle, Christopher R.

- *** Oudit, Gavin Y.** (Medicine, University of Toronto)
Role of estradiol and L-type calcium channel in the pathophysiology of iron-overload.
Supervisor: Backx, Peter H.
- **Ounpuu, Stephanie** (Medicine, McMaster University)
Inter-heart.
Supervisor: Yusuf, Salim
- **Pan, Yan** (Medical Research, University of Toronto)
Compensatory changes in muscle diseases arising from defects in calcium regulatory proteins.
Supervisor: MacLennan, David H.
- **Pineyro, Graciela** (Biochemistry, University of Montreal)
Role of Gi-mediated responses in the pathophysiology of heart failure.
Supervisor: Bouvier, Michel
- **Poitras, Marc Fernand** (Neurology & Neuroscience, John Hopkins University School of Medicine)
MnSOD: A major defensive protein in models of stroke.
Supervisor: Dawson, Ted M.
- **Sheng, Jian-Zhong** (Physiology & Biophysics, University of Calgary)
Functional studies of the Na⁺/K⁺ pump in neonatal and adult mouse heart.
Supervisor: Giles, Wayne R.
- **Smieja, Marek J.** (Medicine, McMaster University)
A case-control study of the association of Chlamydia pneumoniae and coronary atherosclerosis.
Supervisor: Yusuf, Salim
- **Wilcox, Lisa J.** (Nutrition, Columbia University)
Intracellular mechanisms mediating the over production of apolipoprotein B-containing lipoproteins in the insulin resistance state.
Supervisor: Sturley, Stephen
- *** Young, Lynne E.** (Nursing, University of Washington)
Living at risk: Exploring risk for heart disease with low-income single mothers of dependent children.
Supervisor: Cunningham, Susanna
- **Yue, Lixia Y.L.** (Pharmacological & Physiological Sciences, University of Chicago)
Structural determinants of binding of local anesthetic QX derivatives to sodium channel.
Supervisor: Clapham, David
- **Zhang, Yi-Hong** (Physiology & Biophysics, University of Calgary)
Previous fever and anoxic response.
Supervisor: Pittman, Quentin J.