

## 1998/99 Research Fellows

- **Alter, David A.** (Medicine, Sunnybrook Health Science Center)  
*Access to coronary angiography.*  
Supervisor: Naylor, C. David
- **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)  
*Determinants moléculaires et spécificité pharmacologique des agonistes inverses.*  
Supervisor: Bouvier, Michel
- **Bachmaier, K.** (Center for Cardiovascular Research, The Toronto Hospital)  
*Genetic dissection of signaling pathways mediating apoptotic death in cardiac myocytes.*  
Supervisor: Liu, Peter
- **Batchelor, Wayne B.** (Cardiology, Duke University Clinical Research Institute)  
*A comparison of U.S. and Canadian post-MI cardiac catheterization practice patterns in detecting severe coronary artery disease: Relationship between use and diagnostic yield.*  
Supervisor: Califf, Robert M.
- **Bernier, Sylvie** (Medicine, Brigham and Women's Hospital)  
*Etude des effets de la phosphorylation de la eNOS sur sa régulation et ses fonctions intracellulaires.*  
Supervisor: Michel, Thomas
- **Bianciotti, Liliana** (University of Ottawa Heart Institute)  
*Control of natriuretic peptide gene expression.*  
Supervisor: de Bold, Adolfo J.
- **Borger, Michael, A.** (Cardiovascular Research, The Toronto Hospital)  
*Cerebral protection by insulin during cardiac surgery.*  
Supervisor: Weisel, Richard D.
- **Boright, Andrew P.** (Genetics, Robarts Research Institute)  
*Genetic determinants of dyslipidemia and atherosclerosis.*  
Supervisor: Tsui, Lap-Chee
- **Bouley, Richard** (Renal Unit, Massachusetts General Hospital)  
*Etude du mécanisme de désensibilisation du récepteur V2 de la vasopressine et des interactions récepteur V2-proteines intracellulaires.*  
Supervisor: Ausiello, Dennis
- **Chauhan, Vijay S.** (Medicine, Duke University Medical Center)  
*Electrophysiology of cardiac cells expressing the long QT mutant sodium channel.*  
Supervisor: Grant, Augustus O.
- **Cho, Aesim** (Pathology, University of Washington)  
*Regulation of matrix metalloproteinases in smooth muscle cells.*  
Supervisor: Reidy, Michael
- **Claing, Audrey** (Medicine, Duke University)  
*Intracellular redox, NO & post-transcriptional regulation of vascular matrix genes*  
Supervisor: Lefkowitz, Robert J.
- **Connors, Sean** (Cardiology, Ottawa Heart Institute)  
*The role of the coronary sinus as an electrical bridge in AV nodal.*  
Supervisor: Tang, Anthony

- **Dufourcq, Pascale** (Cardiovascular Research, Hospital for Sick Children)  
*Apolipoprotein A1 and AML in the pathobiology of pulmonary vascular disease.*  
Supervisor: Rabinovitch, Marlene
- **Fareh, Jeannette** (Laboratory of Cell Biology, IRCM)  
*Role of vasoactive peptides in cardiac hypertrophy.*  
Supervisor: Thibault, Gaétan
- **Frank, Philippe G.** (Molecular Pharmacology, Albert Einstein College of Medicine)  
*Role of caveolin in the development of coronary artery disease.*  
Supervisor: Lisanti, Michael P.
- **Geelen, Peter G.J.** (Médecine, Université Laval)  
*Modulation par l'ischémie myocardique des effets électrophysiologiques des antiarythmiques de classe III.*  
Supervisor: O'Hara, Gilles E.
- **Gratton, Jean-Philippe** (Pharmacology, Yale University)  
*Role of caveolin in endothelial nitric oxide synthase regulation.*  
Supervisor: Sessa, William C.
- **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)  
*Cellular mechanisms of brain protection by hypothermia and intravenous anesthetics.*  
Supervisor: Tymianski, Michael
- **Ju, Haisong** (Cardiovascular Research, Hospital for Sick Children)  
*Elafin and novel MCP-like gene knockout mice: impact on vascular development and disease.*  
Supervisor: Rabinovitch, Marlene
- **Kantor, Paul Fraser** (Pharmacology, University of Alberta)  
*Volume overload induced hypertrophy in the newborn piglet heart: functional and biochemical correlates.*  
Supervisor: Lopaschuk, Gary D.
- **Laporte, Stéphane** (Cell Biology, Duke University Medical Center)  
*The interactions of B-arrestins with proteins that regulate sequestration.*  
Supervisor: Caron, M.G.
- **Lee, Agnes** (Medicine, Hamilton Civic Hospitals)  
*Modulation of fibrinolysis by the (DD)E complex.*  
Supervisor: Weitz, Jeffrey I.
- **Li, Kai** (Cardiology, St. Michael's Hospital)  
*Role of endothelin in the heart.*  
Supervisor: Stewart, Duncan J.
- **Liaw, Patricia C.Y.** (Laboratory Medicine, University of North Carolina)  
*Plasma endothelin cell protein C receptor: structure, function, and mechanism of release.*  
Supervisor: Esmon, Charles
- **Lu, Wei-Yang** (Physiology, University of Toronto)  
*Mechanisms for acute regulation of NMDA receptor functions by neuropeptides and sigma-ligands.*  
Supervisor: MacDonald, John F.

- **MacKinnon, Colum D.** (Neurology, University of London)  
*Neurophysiological correlates and time course of cortical reorganization following stroke.*  
Supervisor: Rothwell, John C.
- **Makinde, Abiola Olufemi** (Pharmacology & Toxicology, University of British Columbia)  
*Role of endothelin in the development of cardiac dysfunction in experimental diabetes.*  
Supervisor: McNeill, John H.
- **McLeod, Anne G.** (Hematology/Oncology, Brigham & Women's Hospital)  
*Analysis 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)  
*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
- **Ono, Yasuhiro** (CHUM Research Center, Hotel-Dieu Pavillon)  
*Evaluation of TNF $\alpha$  as a candidate gene of insulin resistance in hypertension.*  
Supervisor: Hamet, Pavel
- **Ounpuu, Stephanie** (Medicine, McMaster University)  
*Inter-heart.*  
Supervisor: Yusuf, Salim
- **Poitras, Marc Fernand** (Neurology & Neurosci, John Hopkins University School of Medicine)  
*MnSOD: A major defensive proteine in models of stroke.*  
Supervisor: Dawson, Ted M.
- **Rigby, Alan** (Medicine, Beth Israel Deaconess Medical Center)  
*Structural studies of blood coagulation proteins.*  
Supervisor: Furie, Bruce
- **Rivard, Alain** (Cardiovascular Research, St. Elizabeth's Medical Center)  
*Arterial gene therapy to accelerate re-endothelialization.*  
Supervisor: Isner, Jeffrey
- **Santi Grau Perez, Celia M.** (Biotechnology Laboratory, University of British Columbia)  
*Molecular and functional analysis of cardiac L-type calcium channels.*  
Supervisor: Snutch, Terrance P.
- **Sevigny, Jean** (Immunology, Harvard Medical School)  
*Role of ectoATP diphosphohydrolase in modulating xenograft rejection.*  
Supervisor: Robson, Simon C.
- **Sheng, Jian-Zhong** (Physiology & Biophysics, University of Calgary)  
*Functional studies of the Na<sup>+</sup>/K<sup>+</sup> 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
- **Soubeyrand, Sebastien** (Lipid Metabolism Laboratory, Ottawa Heart Institute)  
*Adenovirus-mediated expression of human apolipoprotein A-I mutants in mice: In vivo analysis of structure-function relationship.*  
Supervisor: Marcel, Yves L.
- **Spyracopoulos, Leonidas** (Biochemistry, University of Alberta)  
*Structure, dynamics and energetics of cardiac troponin C.*  
Supervisor: Sykes, Brian
- **Sward, Karl H.** (Medical Biochemistry, University of Calgary)  
*Regulation of smooth muscle contraction by calponin.*  
Supervisor: Walsh, Michael P.
- **Takagi, Norio** (Life Sciences, University of Toronto)  
*The role of tyrosine phosphorylation, cerebral ischemia, signal transduction.*  
Supervisor: Gurd, James W.
- **Tremblay, Eric** (Laboratoire de développement et différenciation cardiaques, IRCM)  
*Contrôle transcriptionnel de la diversification musculaire.*  
Supervisor: Nemer, Mona
- **Vandenboom, Rene** (Medicine, Toronto General Hospital)  
*The role of K<sup>+</sup> channel in the progression of heart failure.*  
Supervisor: Backx, Peter H.
- **Whitman, Stewart C.** (Medicine, University of Kentucky)  
*The role of interferon gamma in atherosclerosis.*  
Supervisor: Daugherty, Alan
- **You, Yongdong** (Physiology & Biophysics, Dalhousie University)  
*Modulation of cardiac calcium current by intracellular calcium and magnesium.*  
Supervisor: Pelzer, Dieter