

1998/99 Research Trainees

- **Abu-Abed, Mona** (Medical Research, University of Toronto)
Structural analysis of cytoplasmic domains of sarco(endo)plasmic reticulum Calcium ATPase.
Supervisor: MacLennan, David H.
- **Anderson, Christopher M.** (Pharmacology & Therapeutics, University of Manitoba)
The study of nucleoside transport inhibitors as neuroprotective agents.
Supervisor: Parkinson, Fiona E.
- **Andrin, Christi** (Biochemistry, University of Alberta)
Functional analysis of calreticulin-protein interactions.
Supervisor: Michalak, Marek
- **Arikawa, Emi** (Pharmacology & Toxicology, University of British Columbia)
Role of endothelin-1 in coronary arteries from diabetic rats.
Supervisor: McNeill, John H.
- **Batal, Rami** (Hyperlipidemia & Atherosclerosis, IRCM)
Measurement of apolipoprotein production in patients with dietary remnant lipoprotein accumulation using stable isotopes.
Supervisor: Davignon, Jean
- **Bellingham, Catherine** (Cardiovascular Research, Hospital for Sick Children)
The development of elastin-based biomaterials.
Supervisor: Keeley, Fred W.
- **Berthiaume, Nathalie** (Pharmacologie, Université de Sherbrooke)
Reactivité vasculaire pré et post-capillaire chez la souris transgénique.
Supervisor: D'Orléans-Juste, Pedro
- **Borradaile, Nica M.** (Pharmacology & Toxicology, University of Western Ontario)
Regulation of lipoprotein metabolism by citrus flavonoids.
Supervisor: Huff, Murray W.
- **Cayabyab, Francisco S.** (Physiology, University of Toronto)
Ion channel regulation in microglia following cerebral ischemia: oxidative stress and neuroprotection.
Supervisor: Schlichter, L.C.
- **Charron, Frederic** (Laboratory of Cardiac Growth & Differentiation, IRCM)
Role of GATA-4 and GATA-6 transcription factors in cardiac gene expression.
Supervisor: Nemer, Mona
- **Chulak, Chantal** (Physiology, University of Montreal)
Interaction between endothelial and sympathetic control of vascular function.
Supervisor: de Champlain, Jacques
- **Cunningham, Michael A.** (Pathology, McMaster University)
Mutagenic separation of elastase-sensitive and thrombin-inhibitory reactive centre loop sequences of serpins.
Supervisor: Sheffield, William P.
- **Czubryt, Micheal P.** (Physiology, St. Boniface G.H. Research Centre)
Nuclear protection import in aortic vascular smooth muscle cells.
Supervisor: Pierce, Grant N.
- **D'Souza, Sandra** (Laboratory Medicine, University of Toronto)
Translocation of GABA-A receptors in brain ischemia.
Supervisor: Wang, Yu Tian

- **Dai, Ken-Shwo** (Laboratory Medicine, University of Toronto)
Identification and characterization of zinc finger protein genes in human cardiovascular system.
Supervisor: Liew, C.C.
- **Davidoff, Allen W.** (Medicine, University of Calgary)
Excitation-contraction coupling in rats with failing hearts.
Supervisor: ter Keurs, Henk E.D.J.
- **Dempsey, Adam A.** (Laboratory Medicine, University of Toronto)
Identification & characterization of differentially expressed genes during murine cardiogenesis.
Supervisor: Liew, C.C.
- **Deschenes, Isabelle** (Pharmacology, Laval University)
Étude électrophysiologique et pharmacologique des canaux sodiques clonés du cœur et du muscle squelettique.
Supervisor: Chahine, Mohamed
- **Detillieux, Karen A.** (Physiology, University of Manitoba)
Alpha-1 adrenergic regulation of FGF-2 gene expression in the heart.
Supervisor: Cattini, Peter A
- **Drolet, Benoit** (Research Centre, Hôpital Laval)
Évaluation des effets électrophysiologiques cardiaques des modulateurs des fonctions gastro-intestinales.
Supervisor: Turgeon, Jacques
- **Dunn, Jeremy** (Medical Biochemistry, University of Calgary)
Characterization of the sodium/calcium exchanger isoforms functions and inhibition.
Supervisor: Lytton, Johnathan
- **El Mabrouk, Mohammed** (IRCM)
Rôle de l'activité des MAP kinases dans les voies impliquées dans la croissance du muscle lisse vasculaire dans l'hypertension.
Supervisor: Schiffrin, Ernesto
- **Elmoselhi, Adel Bahgat** (Biomedical Sciences, McMaster University)
Effect of free radicals on endothelin responses in coronary artery.
Supervisor: Grover, Ashok K.
- **Fahrig, Rebecca** (Diagnostic Radiology, John P. Robarts Research Institute)
Three dimensional CT scanner for interventional neuroradiology: assessment of aneurysm treatment.
Supervisor: Holdsworth, David W.
- **Farmer, Pierre** (Pharmacologie, Université de Sherbrooke)
Effet des médiateurs responsables du développement de l'athérosclérose sur l'intégrité endothéliale.
Supervisor: Sirois, Pierre
- **Fisher, Carl A.** (Biochemistry, University of Alberta)
Structure-function studies of human apolipoprotein E.
Supervisor: Ryan, Robert O.
- **Foltz, Warren** (Medical Biophysics, Sunnybrook Health Sciences Centre)
MR oximetry for coronary flow reserve measurements in ischemic heart disease.
Supervisor: Wright, Graham
- **Gillis, Todd** (, Simon Fraser University)
Molecular mechanism for temperature dependent calcium sensitivity in the cardiac contractile

protein troponin C.

Supervisor: Tibbits, Glen

- **Girouard, H  l  ne H.G.** (Physiology, Universit   de Montr  al)
Role des radicaux libres dans l'hypertension arterielle.
Supervisor: de Champlain, Jacques
- **Gobeil, Fernand Jr.** (Pharmacology, University of Sherbrooke)
R  le des r  cepteur de type B1 des kinines en physiopathologie cardiovasculaire.
Supervisor: Regoli, Domenico C.
- **Granville, David** (Pathology, St. Paul's Hospital)
Molecular mechanisms of coxsackievirus-induced cytopathic effect involved in myocarditis.
Supervisor: McManus, Bruce M.
- **Hennan, James K.** (Pharmaceutical Science, University of British Columbia)
Role of cGMP and cGMP-dependent protein kinase in vascular smooth muscle tone.
Supervisor: Diamond, Jack
- **Henning, Sarah L.** (Pathology, St. Paul's Hospital)
Myocardial glycogen metabolism and its regulation.
Supervisor: Allard, Michael F.
- **Hollander, Ellen Herdis** (Medical Physiology, University of Calgary)
Wave-intensity analysis of the right ventricle during systole.
Supervisor: Tyberg, John V.
- **Humphries, Karin H.** (Medicine, St. Paul's Hospital)
Prognostic importance of socio-economic status for long-term outcome following open-heart surgery or angioplasty.
Supervisor: Carere, Ronald G.
- **Ivanov, Joan** (ICES, Sunnybrook Health Science Centre)
Risk-adjustment methods for improved assessment of short-term outcomes of cardiac surgery.
Supervisor: Naylor, C. David
- **Jutras, Isabelle** (Laboratory of Molecular Biochemistry of Hypertension, IRCM)
Mechanism of prorenin activation and renin function in tissues.
Supervisor: Reudelhuber, Timothy L.
- **Kermani, Pouneh** (Medecine, Universit   de Montr  al)
L'induction de l'angiogenese et le developpement des vaisseaux collateraux par transfection avec des adenovirus exprimant VEGF dans un coeur ischemique du porc.
Supervisor: Leclerc, Guy
- **Khadour, Fadi H.** (Pediatrics and Pharmacology, University of Alberta)
Alternations in the L-arginine-Nitric oxide pathway in normal and failing hearts.
Supervisor: Schulz, Richard
- **Khaper, Neelam** (Physiology, University of Manitoba)
Molecular characterization of oxidative stress changes and their significance in congestive heart failure.
Supervisor: Singal, Pawan K.
- **Kiss, Robert S.** (Lipid & Lipoprotein , University of Alberta)
Structural and functional studies of chicken apolipoprotein A-1.
Supervisor: Ryan, Robert O.

- **Labbe, Line** (Centre de Recherche, Hôpital Laval)
Evaluation d'une interaction déterminée génétiquement entre la mexiletine et la propafenone.
Supervisor: Turgeon, Jacques
- **Lee, Tsu-Yee, J.** (Laboratory Medicine, Toronto Hospital Research Institute)
F-actin organization and the role of phosphotyrosine in early endothelial wound repair.
Supervisor: Gotlieb, Avrum I.
- **Lemieux, Isabelle** (Lipid Research Centre, Université Laval)
Taille et densité des lipoprotéines de faible densité (LDL): complications métaboliques et risque de cardiopathie ischémique.
Supervisor: Després, Jean-Pierre
- **Liaw, Patricia C.Y.** (Medicine, McMaster University)
Molecular and biochemical characterization of the interaction of thrombin with fibrin.
Supervisor: Weitz, Jeffrey I.
- **Losito, Vito A.** (Pathology, Hospital for Sick Children)
Studies in the electrophysiology of ischemic preconditioning: investigation of the mechanisms regulating intracellular calcium concentration.
Supervisor: Wilson, Gregory J.
- **Mackay-Lyons, Marilyn J.** (Physiology, Dalhousie University)
Longitudinal study of cardiovascular and metabolic responses to treadmill exercise testing early after stroke.
Supervisor: Wolf, Hermann K.
- **Maj, Mary C.** (Biochemistry, McMaster University)
Enzymatic mechanism and structure-activity studies on mammalian adenosine kinase.
Supervisor: Gupta, Radhey S.
- **Makinde, Abiola Olufemi** (Pharmacology, University of Alberta)
Role of AMPK in the increased fatty acid oxidation in the newborn heart.
Supervisor: Lopaschuk, Gary D.
- **Massaelli, Hamid** (Physiology, St. Boniface G.H. Research Centre)
Effect of LDL and oxidized LDL on calcium transport in vascular smooth muscle cell.
Supervisor: Pierce, Grant N.
- **Mcdonald, Paul C.** (Pathology, St. Paul's Hospital)
The role of proteoglycans and lipids in transplant vascular disease.
Supervisor: McManus, Bruce M.
- **McManus, Daniel C.** (Pathology, University of Ottawa Heart Institute)
Adenovirus-mediated transfer of mutant human apolipoprotein A-I to apoA-I deficient mice.
Supervisor: Marcel, Yves L.
- **Moore, Heidi M.** (Pharmacology, Dalhousie University)
A voltage-sensitive release mechanism for cardiac contraction: regulation by protein kinase.
Supervisor: Ferrier, Gregory R.
- **Morello, Jean-Pierre** (Biochemistry, University of Montreal)
Functional characterization of vasopressin receptor mutations in nephrogenic diabetes insipidus.
Supervisor: Bouvier, Michel
- **Noria, Sabrena F.** (Vascular Research Laboratory, Toronto Hospital Research Institute)
Shear stress-related tyrosine phosphorylation in endothelial cells.
Supervisor: Gotlieb, Avrum I.

- **Pérodin, Jacqueline** (Pharmacologie, Université de Sherbrooke)
Etude conformationnelle du récepteur AT1 de l'angiotensine II constitutivement active.
Supervisor: Escher, Emmanuel
- **Pheng, Leng Hong** (Pharmacologie, Université de Sherbrooke)
Caractérisation pharmacologique des récepteurs du NPY sur les préparations tissulaires humaine et animales.
Supervisor: Regoli, Domenico C.
- **Prescott, Gary** (Molecular Biology, IRCM)
Characterization and function of renin uptake in tissues.
Supervisor: Reudelhuber, Timothy L.
- **Rezvani, Mojgan** (Clinical Biochemistry, University of Toronto)
Identification and characterization of cardiovascular genes involved in cardiovascular diseases.
Supervisor: Liew, C.C.
- **Rocnik, Edward** (Medicine, Robarts Research Institute)
Studies of a novel collagen-binding molecular chaperone in vascular smooth muscle cells.
Supervisor: Pickering, J. Geoffrey
- **Rupert, Jim** (Zoology, University of British Columbia)
Genetic influences on blood viscosity in American Indian populations.
Supervisor: Hochachka, Peter W.
- **Sattler, Rita G.** (Playfair Neuroscience Unit, The Toronto Hospital)
Quantitative study of cellular and molecular mechanisms of Ca²⁺ neurotoxicity.
Supervisor: Wallace, M. Christopher
- **Servant, Marc** (Centre de Recherche, Hôtel-Dieu de Montreal)
Mécanismes moléculaires impliqués dans l'action trophique de l'angiotensine II.
Supervisor: Meloche, Sylvain
- **Slaughter, Graham** (Cardiology, The Toronto Hospital)
Characterization of novel tyrosine kinases isolated from neonatal rat cardiac myocytes.
Supervisor: Parker, Thomas
- **Stewart, Ronald J.** (Medicine, Hamilton Civic Hospitals)
Characterizing the stimulatory ability and binding of fibrin(ogen) derivatives to fibrin-specific plasminogen activators.
Supervisor: Weitz, Jeffrey I.
- **Thifault, Stéphane** (Neurology, Hotel-Dieu de Montreal)
Evaluation pharmacogénétique des déficits comportementaux des souris hypertendues et hypotendues.
Supervisor: Lalonde, Robert
- **Troncy, Eric T.E.** (Anesthesia-reanimati, CHUM - Pavillon Notre-Dame)
Effet préventif anti-inflammatoire du monoxyde d'azote (NO) inhalé lors de bypass cardiopulmonaire.
Supervisor: Blaise, Gilbert A.
- **Veerasingham, Shereeni J.** (Hypertension Unit, University of Ottawa Heart Institute)
Brain nuclei that mediate pressor responses to central sodium loading and ouabain.
Supervisor: Leenen, Frans H.H.
- **Waldman, Stephen D.** (Biomaterials, Dalhousie University)
Mechanical testing artifacts in planar connective tissues.
Supervisor: Lee, J. Michael

- **Wang, Xi** (Cardiovascular Sciences, St. Boniface G.H. Research Centre)
Regulation of B-adrenergic mechanisms in cardiac hypertrophy and failure.
Supervisor: Dhalla, Naranjan S.
- **Washburn, David** (Physiology, Queen's University)
Electrophysiological effects of calcium receptor activation in subfornical organ neurons.
Supervisor: Ferguson, Alastair
- **Wu, Lingyun** (Physiology, University of Saskatchewan)
Vascular actions of angiotensin II and endothelin-1.
Supervisor: Gopalakrishnan, Venkat
- **Yue, Lixia Y.L.** (Research Centre, Montreal Heart Institute)
Ionic mechanisms controlling atrial fibrillation.
Supervisor: Nattel, Stanley
- **Zhang, Yingming** (Medicine & Medical Physiology, University of Calgary)
The role of sarcoplasmic reticulum in heart failure.
Supervisor: ter Keurs, Henk E.D.J.