

Division of  
***BioMedical Sciences***  
Faculty of Medicine

Memorial University of Newfoundland

*Research*

*Education*

*Training*

Annual Report  
**2007-2008**

# **Annual Report 2007-2008**

Compiled and edited by  
Karen Mearow, Michelle Corbett and Madonna Hawco

Acknowledgements: Thanks to Sharon Gray, HSIMS, for permission to use her submissions from the Gazette and MUNMED in this Annual Report.

For further details, please contact:

Division of BioMedical Sciences  
Faculty of Medicine  
Memorial University of Newfoundland  
St. John's, Newfoundland and Labrador  
Canada, A1B 3V6

Telephone: (709) 777-6897  
Fax: (709) 777-8281  
Email: [kmearow@mun.ca](mailto:kmearow@mun.ca)  
Website: [www.med.mun.ca/biomed](http://www.med.mun.ca/biomed)

**Memorial University of Newfoundland**

**Faculty of Medicine  
Division of BioMedical Sciences**

**Annual Report**

**Academic Year 2007-2008**

**December 2009**

# Table of Content

<b>Introduction.....</b>	<b>5</b>
<b>Research Programs .....</b>	<b>6</b>
<b>Faculty and Staff .....</b>	<b>7</b>
<b>Educational Responsibilities .....</b>	<b>10</b>
<b>Visiting Speakers.....</b>	<b>12</b>
<b>Graduate Students.....</b>	<b>14</b>
<b>Undergraduate Students .....</b>	<b>16</b>
<b>Faculty Publications .....</b>	<b>17</b>
<b>Presentations .....</b>	<b>28</b>
<b>Research Funding in the Division of BioMedical Sciences .....</b>	<b>37</b>
<b>University and Community Service .....</b>	<b>42</b>

## ***Introduction***

### **Mission of the Faculty of Medicine**

- to enhance the health of the people of Newfoundland and Labrador by educating physicians and health scientists; by conducting research in clinical and BioMedical sciences and applied health sciences and by promoting the skills and attitudes of lifelong learning

### **Goals and objectives of the Division of BioMedical Sciences**

- To conduct and promote research and associated scholarly activities in the area of biomedical sciences.
- To promote and deliver a high-quality, science-based medical education to undergraduate and post-graduate medical students, and to foster programs of excellence for the training of graduate students in BioMedical Sciences.
- To serve as a primary resource for biomedical sciences for the Faculty of Medicine, other Faculties and Schools, national and international scientific and educational organizations and for the Community at large.

The Division of BioMedical Sciences is the home to many of the basic biomedical researchers and educators within the Faculty of Medicine. Our faculty members have a diversity of interests as illustrated by the contents of this report. While the major focus of many of our members is research, and providing excellent research and training opportunities for our graduate students and promising undergraduate science students, we also have a commitment to education. As part of this commitment, our faculty instruct in the undergraduate medical curriculum with the aim of providing a solid foundation in the BioMedical Sciences for medical students. In addition to the MD program, we also provide instruction at the undergraduate level in the School of Pharmacy and Faculty of Science courses. At the graduate level, many of our faculty are members of research programs which provide the basis for the graduate programs administered by the School of Graduate Studies and the Office of Research and Graduate Studies within the Faculty of Medicine. Each graduate program has courses coordinated and taught by divisional members.

The last few years have been ones of change for the Division. This period has been one of growth and renewal – our new faculty members have provided the Division with obvious energy and enthusiasm, and have quickly become integrated into the Division and the Faculty as a whole.

You can find us at <http://www.med.mun.ca/biomed>

K.M. Mearow,  
Associate Dean

## ***Research Programs***

### **Research Groups**

There are 32 full time and 6 jointly-appointed faculty members in the Division of BioMedical Sciences. The majority of faculty in the Division are members of Research Groups. These include the Cancer, Cardiovascular Sciences, Immunology and Neuroscience research groups, which form the basis of the graduate programs in these areas.

### ***Cancer***

***Key areas of research:*** angiogenesis, apoptosis, cancer genetics, growth factors, viral oncogenesis

There are currently 9 BioMedical Sciences faculty in the Cancer Research Group. The Cancer Research Group's interests span the breadth of cancer research. These researchers pursue fundamental cell and molecular biological questions, studying viral oncogenesis, growth factors and oncogenes in developmental models, programmed cell death, drug resistance and cancer genetics. Other researchers, including colleagues from the Division of Community Health and clinicians from the Newfoundland Cancer Treatment and Research Foundation (NCTRF) and the clinical disciplines, bring a great deal of clinical experience and interest in clinical trials, pediatric oncology, epidemiology and cancer imaging/screening and diagnosis to the group. Funding for this research comes from external operating and personnel awards from CIHR, NCI and NSERC. One of the faculty members, Dr. Ann Dorward, is the recipient of a Tier 2 Canada Research Chair in Molecular Signaling in Human Health and Disease.

### ***Cardiovascular Sciences***

***Key areas of research:*** Investigation of cardiovascular regulation and pathology in preparations ranging from the conscious animal to isolated tissues.

This is one of the smaller research groups with 6 members, but has a well-funded and active research program. The cardiovascular/renal group is actively involved in a range of research including hypertension, stroke, salt-sensitivity of blood pressure, cerebral blood flow regulation, vascular remodeling, venous circulation, blood pressure variability, role of aldehydes and oxidative stress in hypertension and hypertensive damage, heart failure; physiology and pharmacology of blood vessels. Funding for this research comes from CIHR, NSERC, Heart and Stroke Foundation, as well as partnerships with pharmaceutical companies.

### ***Immunology***

***Key areas of research:*** Hepatitis B and C, HIV, HLA genes and T cell receptors, virus induced cell injury, autoimmunity, tumor immunity

The Immunology research group has 8 members from the Division of BioMedical Sciences involved in studies of the immune system and infectious disease. Research interests include immune regulation in HIV infection, virus induced cell injury and

persistence, dietary nutrients in regulation of immune responses and susceptibility to infection, understanding the mechanisms of susceptibility to rheumatoid arthritis, how HLA alleles influence the immune response in breast cancer patients, development of hepatitis vaccines and antivirals. Funding for this research comes from CIHR, Canadian Breast Cancer Alliance and several pharmaceutical partners. One of the faculty members, Dr. Thomas Michalak is the recipient of a CRC Tier 1 Senior Chair in Viral Hepatitis.

## **Neuroscience**

**Key areas of research:** learning and memory, neural plasticity, neuropharmacology, neuroprotection, stroke, neurotrophins, signal transduction

The Neuroscience group consists of 8 faculty members from the Division of BioMedical Sciences. Research interests include both central and peripheral nervous system with strengths in cerebrovascular disease, neuropharmacology, memory, neural regeneration, autonomic control mechanisms and cellular signal transduction mechanisms. Research models range from in vitro cellular studies to whole animal behavioural studies. Funding for this research comes from CIHR, NSERC, Newfoundland and Labrador Neurotrauma Initiative, Heart and Stroke Foundation. One of the faculty members, Dr. Dale Corbett, is the recipient of a CRC Tier 1 Senior Chair in Stroke and Neural Plasticity.

In addition to BioMedical Sciences faculty members, these research groups also include colleagues from various clinical disciplines (Oncology, Genetics, Medicine) and other University departments (Biochemistry, Psychology). This provides for a collaborative approach to research and education. The graduate programs in each of these areas are very active with students at both the M.Sc. and Ph.D. levels.

## **Faculty and Staff**

### **Core Faculty**

**\*Carayanniotis, George** (Toronto), professor of medicine (endocrinology)  
**Chandra, Shakti** (New Delhi), associate professor of anatomy  
**\*Chen, Xihua** (Cambridge), associate professor of neuroscience (biological psychiatry)  
**Church, Jon** (Toronto), professor of oncology  
**Corbett, Dale** (Concordia), professor of physiology (neurosciences), Tier 1 Canada Research Chair in Stroke and Neuroplasticity  
**Dore, Jules** (Tennessee), associate professor of cell biology  
**Dorward, Ann** (McMaster), assistant professor of molecular signaling, Tier 2 Canada Research Chair in Molecular Signaling in Human Health and Disease  
**Drover, Sheila** (Memorial), associate professor of immunology  
**Gendron, Robert** (McGill), associate professor of cancer/cardiovascular biology  
**Gillespie, Laura** (Ottawa), professor of oncology  
**\*Grant, Michael** (McMaster), professor of immunology  
**Hansen, Penny A.** (Memorial), professor of physiology  
**Harris, June A.** (Memorial), professor of anatomy, Assistant Dean of Student Affairs,

Director of MedCAREERS

**Hirasawa, Kensuke** (Tokyo), assistant professor of immunology

**Hirasawa, Michiru** (Tokyo), associate professor of neurosciences

**Kao, Ken** (Toronto), professor of oncology

**MacPhee, Daniel** (Western Ontario), associate professor of reproductive and cell

**McGuire, John** (Queen's), assistant professor of cardiovascular sciences

**McKay, Donald W.** (Michigan State), professor of physiology, Director, Faculty Development

**McLean, John** (Dalhousie), professor of anatomy

**Mearow, Karen** (McMaster), professor of neuro/molecular biology, Associate Dean, Division of BioMedical Sciences

**Michalak, Thomas I.** (Warsaw), professor of molecular virology and medicine, Tier 1 Canada Research Chair in Viral Hepatitis and Immunology

**Moody-Corbett, Penny** (McGill), professor of physiology, Associate Dean, Research and Graduate Studies

**Neuman, Richard** (Alberta), professor of pharmacology, Co-Chair, Human Investigation Committee

**Paradis, Helene** (Montreal), associate professor of vascular molecular biology

**Paterno, Gary** (Ottawa), professor of oncology

\***Richardson, Vernon** (Sheffield), associate professor of surgery (oncology)

**Russell, Rod** (McGill), assistant professor of immunology

**Smeda, John** (McMaster), professor of cardiovascular/renal physiology

**Stuyvers, Bruno** (Bordeaux, France), associate professor of cardiovascular cellular and molecular physiology

**Tabrizchi, Reza** (British Columbia), professor of pharmacology (cardiovascular)

**Vanderluit, Jacqueline** (British Columbia), assistant professor of neurosciences

**Van Vliet, Bruce** (Saskatchewan), professor of cardiovascular/renal physiology

\***Vasdev, Sudesh** (Punjab) professor of medicine (biochemistry)

\* Joint Appointed

### ***Affiliated Faculty***

**Adamec, Robert** (McGill), professor of psychology

**Brosnan, John** (Oxon), professor of biochemistry

**Brosnan, Margaret** (Toronto), professor of biochemistry

**Cheema, Sukhinder** (PGIMER), associate professor of biochemistry

\***Harley, Caroline**. (Oregon), professor of physiology (neurosciences)

**Kovacs, Christopher** (Queen's), associate professor of medicine (endocrinology)

**Loomis, Christopher**. (Queen's), professor of pharmacology, Vice President (Research and International Relations)

**Liu, Hu** (Alberta), associate professor of pharmacy

**Malsbury, Charles** (McGill), professor of psychology

**Weber, John** (Virginia), assistant professor of pharmacy

\***Young, Terry-Lynn** (Memorial), assistant professor of genetics

\* Cross-appointed



### ***Adjunct Faculty***

Mandal, Sanat (Calcutta)  
Mansour, Atef (Cairo), Scientist, DFO  
Ploughman, Michelle (Memorial)

### ***Professors Emeriti***

Allderdice, Penelope (Montana)  
Bieger, Detlef. (Kiel), professor of pharmacology  
Orr, James (Glasgow)  
Roberts, Kenneth. (Oxon)  
Tomlinson, J.D.W. (Cambridge)

### ***Post-Doctoral Fellows***

Sherri Lynn Christian  
Noriko Daneshtalab  
Crystal MacLellan  
Patricia Mulrooney-Cousins  
Tram Pham

### ***Administrative and Secretarial Staff***

Judy Blundon  
Madonna Hawco  
Deborah Parrott  
Michelle Corbett  
Janice Petten

### ***Research Support Staff***

Christian Alberto	Heather Fifield	Corinne Mercer
Phillip Andrews	Carol Ann Ford	Ewa Miskiewicz
Linda Chafe	Neva Fudge	Firoozeh Nafar
Garry Chernenko	Michael Furlong	Charlene Noseworthy
Elizabeth Chia	Maureen Gallant	Colleen Trelegan
Norma Churchill	Nicole Garrett	Stephanie Tucker
Dianne Codner	Shirley Granter-Button	Jacqueline Walker
Andrea Darby-King	Sarah Halfyard	Nicole Whittle
Anita Davis	Natasha Hollett	Jieying Xiong
Catherine Ducey	Kathy McKay	Katrin Zipperlen
Sue Evans	Sonya MacParland	

## ***Educational Responsibilities***

### ***Undergraduate Teaching***

Faculty in the Division of BioMedical Sciences contributed to teaching in a variety of undergraduate courses in the Faculty of Medicine, the School of Pharmacy and the Faculty of Science.

### ***M.D. Curriculum***

**MED 5600** – Basic Science of Medicine I. This is an integrated course with components including anatomy, biochemistry, physiology, cell biology, pathology. The course is intended to provide an introduction to the basic science of medicine.

**MED 6600** – Basic Science of Medicine II; BSM II is a continuation of BSMI, with subject areas including immunology, and genetics.

**MED 5650** – Integrated Study of Disease I. This course provides an introduction to the clinical science and pathology of major organ systems. Major components taught by Basic Science faculty include Cardiovascular physiology.

**MED 6650** – Integrated Study of Disease II. This is a continuation of ISD I and components taught by faculty in BioMedical Sciences include Neurosciences/Neurology, Endocrinology, Women's Health.

**MED 7280** – Integrated Basic, Community Health and Clinical Sciences. This course is also known as "Back to Basics".

### ***Courses offered for non-medical students***

**MED 310A, 310B** (aka BIOC 311A/B) – Human Physiology, Course Chair, Dr. P. Hansen

**MED 4300** – Introduction to General and Autonomic Pharmacology, Course Chairs, Drs. J. Church and R. Tabrizchi

**PHARM 4105/BIOCH4105** – Immunology, Course Chair – T. Michalak

### ***Graduate Teaching***

Graduate teaching and courses in the Faculty of Medicine are administered by the School of Graduate Studies, co-ordinated through the Office of Research and Graduate Studies. Four of the graduate programs in the Faculty of Medicine are primarily associated with the research programs in the Division of BioMedical Sciences. These programs are Cancer, Cardiovascular/Renal Physiology, Immunology and Neurosciences. The Program Coordinators and the courses offered through each program are noted below.

### ***Cancer***

**Co-ordinator** – J. Dore

Participating Faculty – J. Church, J. Dore, A. Dorward, R. Gendron, L. Gillespie, K. Kao, D. MacPhee, H. Paradis, G. Paterno

### **Courses**

MED 6580 – Molecular biology of cancer  
MED 6590 – Molecular biology I  
MED 6591 – Molecular biology II  
MED 6400 – Cancer seminars

### **Cardiovascular/Renal Physiology**

**Co-ordinator** – J. Smeda

Participating Faculty – J. Smeda, J. McGuire, B. Stuyvers, R. Tabrizchi, B. Van Vliet, S. Vasdev

### **Courses**

MED 6140 – Basic cardiovascular and renal physiology  
MED 6141 – Cardiovascular/Renal techniques  
MED 6142 – Special Topics in cardiovascular/renal physiology

### **Immunology**

**Co-ordinator** – Dr. T. Michalak

Participating Faculty – G. Carayanniotis, S. Drover, M. Grant, K. Hirasawa, T. Michalak, V. Richardson, R. Russell

### **Courses**

MED 6127 – Immunology I  
MED 6128 – Immunology II  
MED 6130 – Advanced Immunological Methods  
MED 6100-6114 – Immunology Seminars

### **Neurosciences**

**Co-ordinator** – Dr. Xihua Chen

Participating Faculty – X. Chen, D. Corbett, M. Hirasawa, J. McLean, K. Mearow, P. Moody-Corbett, R. Neuman, J. Vanderluit

### **Courses**

MED 6193 – Advanced Topics in neuroscience  
MED 6196 – Systems neuroscience  
MED 6197 – Cellular neuroscience

### **Graduate Research Integrity Program (GRIP)**

**Coordinator for Medicine** - P. Moody-Corbett

**Facilitator** - D.W. McKay

## **Post Graduate Education**

### ***Visiting Speakers***

Apr. 2007 - Dr. Edward Leof, Mayo Clinic

“Trafficking and signalling of TGF-beta Receptor Complexes: Yeast to the Clinic”

Apr. 2007 - Dr. Morag Park, Molecular Oncology Group

“The Met Receptor Tyrosine Kinase: ubiquitination, signalling and oncogenesis”

May 2007 - Dr. James R. Stellar, Northeastern University

“Intracranial Self-Stimulation Reward, Cocaine Exposure, and the Nucleus Accumbens: Implications for Addiction”

July 2007 - Kelly McClellan, Ph.D. Candidate, University of Ottawa

“The role of the Rb/E2F signaling pathway in mediating neural precursor proliferation and neuronal migration”

Aug. 2007 - Dr. Stanley Lemon, University of Texas Medical Branch

“Escaping Innate Antiviral Responses”

Sep. 2007 - Dr. Anne-Marie Mes-Masson, Montreal Cancer Institute

“Understanding epithelial ovarian cancer: from basic research to translational medicine”

Oct. 2007 - Dr. Jennifer Gommerman, University of Toronto

“Initiation of Lymphoid Microenvironments during the Immune Response by the Lymphotoxin Pathway”

Nov. 2007 - Dr. Ingeborg Zehbe, Thunder Bay Regional Health Sciences Centre

“Molecular variants of human papilloma virus: impact on persistence and pathogenesis”

Nov. 2007 - Dr. Paul Murphy, Dalhousie University

“Sense, Antisense, or Nonsense? Role of antisense FGF gene expression in esophageal cancer.”

Dec. 2007 - Dr. Terry Yamaguchi, National Cancer Institute-Frederick, NIH

“The genetic networks underlying Wnt signalling during mammalian development and disease”

Feb. 2008 - Dr. Sheena Josselyn, University of Toronto

“Neuronal selection during memory formation”

Apr. 2008 - Dr. Yasuhiro Ikeda, Mayo Clinic College of Medicine

“TRIM5alpha-mediated block of HIV-1 production”

Mar. 2008 - Dr. Satomi Kagota, Mukogawa Women’s University Japan

“Vascular endothelial dysfunction in metabolic syndrome”

May 2008 – Dr. Philip Halloran, University of Alberta  
“The many faces of Interferon- $\gamma$  in organ transplantation”

May 2008, Dr. Marc Bilodeau, University of Montreal  
“Studying HCV using primary cultures of human hepatocytes”

July 2008 – Dr. Geoffrey Payne, University of British Columbia  
“Vascular Modulation of Immune Function”

June 2008 – Dr. Gregory Cox, The Jackson Laboratory, Bar Harbor, Maine  
“Mouse Models of Heritable Disease”

June 20, 2008 – Dr. Michelle D. Brazas, Ontario Institute for Cancer Research  
“Incorporating bioinformatics into biomedical research”

July 2008 - Dr. K. Adam Baker, McGill University  
“The Role of Proteoglycans in Netrin-1 Mediated Axon Growth”

July 2008 - Dr. Asad Zeidan, University of Western Ontario  
“Critical role of caveolae-mediated actin cytoskeleton modulation in mechanical stretch- and leptin-induced cardiovascular hypertrophy”

July 2008 - Dr. Veronica A. Campanucci, Hospital for Sick Children, Toronto, ON  
“Modulation of autonomic function by oxidative stress: Inactivation of neuronal nicotinic ACh receptors”

July 2008 - Dr. Ada Chung, University of British Columbia  
“Vascular dysfunction in human and animal disease models: Importance of matrix metalloproteinases”

July 2008 - Dr. Qi Yuan, University of California at San Diego  
“Associative plasticity merges neuronal ensembles in the hippocampus”

Aug 2008 - Dr. Ted Abel, University of Pennsylvania  
“Molecular mechanisms of long-term memory storage”

Sep. 2008 – Dr. Marianne Michelle Stanford, Ottawa Health Research Institute  
“The good, the bad and the ugly: The complex interaction of immune system, poxvirus and tumor microenvironment in oncolytic virotherapy”

Sep. 2008 – Dr. David S. J. Allan, Harvard University  
“Natural killer cell subsets and TGF $\beta$ ”

Sep. 2008 - Dr. Mani Larijani, University of Toronto  
“Biochemical mechanisms of genome mutators governing adaptive and innate immunity”

Sep. 2008 - Dr. Henk ter Keurs, University of Calgary  
“Cardiac Pump function; two sides of a coin?”

Oct. 2008 – Dr. Nikolaus Plesnila, University of Munich Medical Center  
“Pathophysiology of neuronal cell death following acute brain damage”

Nov. 2008 - Dr. Sarah-Jane Guild, University of Auckland  
“The role of the sympathetic nervous system in the development of cardiovascular disease”

Nov. 2008 - D. Andrew Makrigiannis, University of Montreal  
“Class I MHC Positively Regulates Plasmacytoid Dendritic Cell Function”

Nov. 2008 - Dr. Sarah-Jane Guild, University of Auckland  
“The role of the sympathetic nervous system in the development of cardiovascular disease”

Nov. 2008 – Dr. Stephan Menne, Cornell University  
“The woodchuck model for therapy of chronic infection with hepatitis B virus”

Nov. 2008 - Dr. Kazue Semba, Dalhousie University  
“Basal forebrain regulation of sleep-wake state”

Dec. 2008 - Dr. Jim Fawcett, Dalhousie University  
“Adaptor proteins regulate axon guidance and dendritic spine development”

## ***Graduate Students***

The following Students are supervised by BioMedical Sciences faculty members and were enrolled in the Faculty of medicine graduate programs associated with the Division of BioMedical Sciences research groups in 2007-2008

<b>Last Name</b>	<b>First Name</b>	<b>Degree</b>	<b>Program</b>	<b>Supervisor(s) Last</b>	<b>Supervisor (s) First</b>
Kolypetri	Panayota	MSc	Immunology	Carayanniotis	George
Liu	Yudan	PhD	Neuroscience	Chen	Xihua
Deemyad	Tara	MSc	Neuroscience	Chen	Xihua
Harding	Meghan	MSc	Neuroscience	Chen	Xihua
Clarke	Jared	PhD	Neuroscience	Corbett	Dale
Hewlett	Krista	PhD	Neuroscience	Corbett	Dale
Kelly	Meighan	MSc	Neuroscience	Corbett	Dale
Langdon	Kris	PhD	Neuroscience	Corbett	Dale
MacDonald	Katie	MSc	Neuroscience	Drover	Ann
Corkum	Christopher	MSc	Immunology	Drover	Sheila
Mostafa	Ahmed	PhD	Immunology	Drover	Sheila
Oldford	Sharon	PhD	Immunology	Drover	Sheila
Winter	Nicole Joan	MSc	Immunology	Drover	Sheila

Last Name	First Name	Degree	Program	Supervisor(s) Last	Supervisor (s) First
Islam	Thasin	MSc	Cancer	Gendron/Paradis	Robert/Hélène
Martin	Darryl	PhD	Cancer	Gendron/Paradis	Robert/ Hélène
Whelan	Maria	MSc	Cancer	Gendron/Paradis	Robert/ Hélène
Clements	Jaclyn	MSc	Cancer	Gillespie	Laura
Fifield	Heather	MSc	Cancer	Gillespie	Laura
McCarthy	Patti	PhD	Cancer	Gillespie	Laura
Thorne	Leanne	MSc	Cancer	Gillespie	Laura
Barrett	Lisa	PhD	Immunology	Grant	Michael
Brazil	Aiden	MSc	Immunology	Grant	Michael
Parsons	Matthew	MSc	Immunology	Grant	Michael
Penney	Stephen	MSc	Immunology	Grant	Michael
Sullivan	Shannon	PhD	Immunology	Grant	Michael
Licursi	Maria	PhD	Immunology	Hirasawa	Kensuke
Zu	Dong	MSc	Immunology	Hirasawa	Kensuke
Alberto	Christian	MSc	Neuroscience	Hirasawa	Michiru
Parsons	Matthew	PhD	Neuroscience	Hirasawa	Michiru
Quinlan	Michelle	MSc	Neuroscience	Hirasawa	Michiru
He	Zhijian	MSc	Cancer	Kao	Ken
Kennedy	Mark	PhD	Cancer	Kao	Ken
Tzenov	Youlian	MSc	Cancer	Kao	Ken
Wells	Malcolm	MSc	Cancer	Kao	Ken
Cross	Brandon	MSc	Cancer	MacPhee	Daniel
Elustondo	Pia	PhD	Cancer	MacPhee	Daniel
Kirby	Trina	PhD	Cancer	MacPhee	Daniel
White	Bryan	PhD	Cancer	MacPhee	Daniel
Williams	Selena	PhD	Cancer	MacPhee	Daniel
King	Chris	MSc	Cardiovascular	McGuire	John
Hughes	Keon	MSc	Cardiovascular	McGuire	John
Chechi	Kanta	PhD	Cardiovascular	McGuire	John
Baker	Carla	MSc	Neuroscience	McKay	Donald
Christie-Fougere	Melissa	MSc	Neuroscience	McLean	John
Cui	Wen	PhD	Neuroscience	McLean	John
De Jong	Jeremy	MSc	Neuroscience	McLean	John
Grimes	Matthew	PhD	Neuroscience	McLean	John
Clarke	Joseph	PhD	Neuroscience	Mearow	Karen
Rankin	Sherri	PhD	Neuroscience	Mearow	Karen
Williams	Kristy	PhD	Neuroscience	Mearow	Karen
Gujar	Shashi	PhD	Immunology	Michalak	Thomas
Guy	Clifford	PhD	Immunology	Michalak	Thomas
Jenkins	Adam	PhD	Immunology	Michalak	Thomas
MacParland	Sonya	PhD	Immunology	Michalak	Thomas
Pohling	Julia	MSc	Immunology	Michalak	Thomas
Sarhan	Mohamed	PhD	Immunology	Michalak	Thomas

Last Name	First Name	Degree	Program	Supervisor(s) Last	Supervisor (s) First
Abouched	Kassem	PhD	Immunology	Richardson	Vernon
Zipperlen	Katrin	MSc	Immunology	Richardson	Vernon
Atoom	Ali	PhD	Immunology	Russell	Rodney
Jackel-Cram	Candice	PhD	Immunology	Russell	Rodney
Daniels	Rebecca	MSc	Cardiovascular	Stuyvers	Bruno
Mahajan	Puneet	PhD	Cardiovascular	Tabrizchi	Reza
McLaughlin	Sarah	MSc	Cardiovascular	Tabrizchi	Reza
Malone	Craig	MSc	Neuroscience	Vanderluit	Jacqueline

The preceding list is of graduate students in medicine who are supervised by Divisional (FT) faculty members. Divisional members also serve on supervisory committees of students in the School of Pharmacy, Departments of Biology and Biochemistry.

### ***Undergraduate Students***

Last Name	First Name	Program	Supervisor(s) Last	Supervisor(s) First
Andrews	Matthews	Summer	Drover	Sheila
Brake	Heidi	Summer	Harris	June
Budden	Curtis	Honors	McGuire	John
Burke	Megan	Honors/Summer	Tabrizchi	Reza
Butt	Stephanie	Honors	Corbett	Dale
Chapman	Andrew	Honors	Dorward	Ann
Clarke	Kimmy	Honors	McLean	John
Collins	Kayla	Summer	Dorward	Ann
Corkum	Christopher	Summer/MUCEP	Drover	Sheila
Dalton	Andrew	Honors	Van Vliet	Bruce
Dieter	Julia	Exchange	Hirasawa	Kensuke
Doody	Lesley	Summer	McKay	Don
Fagan	Richard	Honors	Michalak	Thomas
Farrell	Keelia	Honors	Kao	Ken
Gurpreet	Sohi	Summer	Michalak	Thomas
Hall	Allison	Summer	Drover	Sheila
Harnett	David	Honors	Stuyvers	Bruno
Hernandez	Myriam	Exchange	MacPhee	Daniel
Hollett	Heather	MUCEP/Summer	Russell	Rodney
Hughes	Keon	Honors	McGuire	John
Jacobs	Melisa	Honors	Michalak	Thomas
Jenkins	Greg	Honors	Gillespie	Laura
Kung	Danika	Honors	Corbett	Dale
LeMessurier	Jennifer	Honors/Summer	Richardson	Vernon
Leonard	Samantha	Honors	Carayanniotis	George
Mong	Christopher	Honors	Michalak	Thomas



Last Name	First Name	Program	Supervisor(s) Last	Supervisor(s) First
O'Dea	Heather	MUCEP	MacPhee	Daniel
Osmond	Allison	Summer	Grant	Michael
Peddle	S	MUCEP	Tabrizchi	Reza
Phillips	Jennifer	Summer	Grant	Michael
Pike	Luke	Honors	MacPhee	Daniel
Power	Angela	Honors/Summer	Vanderluit	Jacqueline
Power	Katie	MUCEP	Tabrizchi	Reza
Ryan	Suzanne	Summer	McGuire/Van Vliet	John/Bruce
Saunders	Lisa	Honors	Paradis	Hélène
Sheen	Ashley	Coop	Vanderluit	Jacqueline
Sheih	Benjamin	Summer	Russell	Rodney
Smith	Melissa	Honors	McLean	John
Sparrow	Kathryn	Summer	Drover	Sheila
Stratton	Julia	Honor/Summer	Gillespie	Laura
Wareham	Angela	Honors	MacPhee	Daniel
Wareham	Angela	Honors	MacPhee	Daniel
Weiner	Lukasz	Honors	Michalak	Thomas
Wells	Heidi	MUCEP/Summer	Dorward	Ann
Wells	Heidi	Summer	MacPhee	Daniel
Williams	Bradley	Honors	Michalak	Thomas

## ***Faculty Publications***

Abbott C, Campbell N, Drouin D, **McKay D**, Milot A, Myers M. Office and Home Blood Pressure Assessment. *Hypertension Diagnosis and Follow up*.  
<http://www.hypertension.ca/chep/resource-centre/slides/2008>

Andrews P, Popadiuk C, **Kao K** (2008) *Regulation of the human Pygopus 2 gene promoter by the ELF-1 transcription factor in breast cancer. Molecular Cancer Research* 6, 259-266

Arbour NA\*, **Vanderluit JL\***, Legrand JN, Park DS, Opferman JT, Slack RS. Mcl-1 is required for neurogenesis and post mitotic cortical neuron survival. (\* co-authors) *Journal of Neuroscience*, 28(24):6068-78.

Armoundas AA, Rose J, Aggarwal R, **Stuyvers BD**, O'Rourke B, Kass DA, Marbán E, Shorofsky SR, Tomaselli GF, William Balke C. Cellular and molecular determinants of altered Ca<sup>2+</sup> handling in the failing rabbit heart: primary defects in SR Ca<sup>2+</sup> uptake and release mechanisms. *American Journal of Physiology: Heart Circ Physiol*. 2007 Mar; 292(3):H1607-18.

Arvanitidis AP, **Corbett D**, Colbourne F. A high fat diet does not exacerbate CA1 injury and cognitive deficits following global ischemia in rats *Brain Res*, 2008, in press.

Ayer A, Antic V, Dulloo AG, **Van Vliet BN**, Montani J-P (2007) Hemodynamic consequences of chronic parasympathetic blockade. *Am J Physiol Heart Circ Physiol*; 293(2):H1265-72

Barrett L, Gallant M, Howley C, Bowmer MI, Hirsch G, Peltekian K, **Grant M** (2008) Enhanced IL-10 Production in Response to Hepatitis C Virus Proteins by Peripheral Blood Mononuclear Cells from Human Immunodeficiency Virus-infected Individuals. *BMC Immunology*, 9:28.

Barrett L, Gamberg J, Gallant M, **Grant MD** (2007) Circulating CD14<sup>-</sup>CD36<sup>+</sup> Peripheral Blood Mononuclear Cells Constitutively Produce Interleukin-10. *J Leuk. Biol.* 82:152-160.

Bethune C, **Hansen PA**, Deacon D, Hurley K, Kirby A, Godwin M (2007) Family Medicine as a career option: students' changing attitudes during medical school. *Canadian Family Physician* 53:881-885

Blackmore TM, Mercer CF, **Paterno GD**, Gillespie LL. The transcriptional cofactor MIER1-beta negatively regulates histone acetyltransferase activity of the CREB-binding protein. *BMC Res Notes*. 2008 Aug 22;1:68.

Bolli P, Hemmelgarn B, Myers MG, **McKay DW**, Tremblay G, Tobe SW; for the Canadian Hypertension Education Program. High normal blood pressure and prehypertension: The debate continues. *Can J Cardiol.* 2007 May 15;23(7):581-3

**Carayanniotis G** (2007) Recognition of thyroglobulin by T cells: the role of iodine. *Thyroid* 17: 963-73

Campbell NRC, **McKay DW**, Conradson H, Lonn E, Title LM, Anderson T. Automated oscillometric blood pressure versus auscultatory blood pressure as a predictor of carotid intima-medial thickness in male firefighters. *J Hum Hypertens.* 2007 Jul;21(7):588-90. Epub 2007 Mar 22.

Christie-Fougere M, Darby-King A, Harley CW, **McLean JH** (2008) Calcineurin inhibition eliminates the normal U curve, enhances acquisition and prolongs memory in a mammalian 3'-5'-cyclic AMP-dependent learning paradigm. *Neuroscience*, in press.

Cliff W, Freeman S, **Hansen P**, Kibble J, Peat M, Wenderoth MP. Is Formative Assessment an Effective Way to Improve Learning? *Adv Physiol Educ* 32: 337 – 338, 2008

Coffin CS, Mulrooney-Cousins PM, Lee SS, **Michalak TI**, Swain M (2007) Profound suppression of chronic hepatitis C following superinfection with hepatitis B virus. *Liver Intl.*, 27: 722-726.

**Corbett D**, Larsen J, Langdon KD. Diazepam delays the death of hippocampal CA1 neurons following global ischemia *Exper Neurol*, 2008, 214, 309-314.

Croke JM, Pike LRG, **MacPhee DJ** (2007) The focal adhesion protein Hic-5 is highly expressed in the rat myometrium during late pregnancy and labour and co-localizes with FAK. *Reprod Biol Endocrinol* 5:22.

Cross BE, O'Dea H, **MacPhee DJ** (2007) Expression of small heat-shock related protein 20 (HSP20) in rat uterine smooth muscle is remarkably decreased just prior to and during labour. *Reproduction* 133:807-817

Cui W, Smith A, Darby-King A, Harley CW, **McLean JH** (2007) A temporal-specific and transient cAMP increase characterizes odorant classical conditioning. *Learn Mem* 14:126-133.

Davtyan TK, Mkhitarian LM, Gagik S, Hakobyan S, Brazil A, Barrett L, Hirsch G, Peltekian K, **Grant MD** (2007) The 1F7 Idiotype is Associated with Chronic Hepatitis C Virus Infection and Selectively Expressed on CD5<sup>+</sup> B cells. Submitted to *J Infect Dis*.

Delahunty KM, **McKay DW**, Noseworthy DE, Storey AE. Prolactin responses to infant cues in men and women: effects of parental experience and recent infant contact. *Hormones and Behaviour*. *Horm Behav.* 2007 Feb;51(2):213-220

Doody LM, Wilhelm SI, **McKay DW**, Storey AE. The effects of variable breeding conditions on Common Murre (*Uria aalge*) parental behavior and corticosterone concentrations. *Hormones and Behavior*. 2008, 53(1):140-8.  
doi:10.1016/j.yhbeh.2007.09.009.

**Dorward AM**, Schultz KL, Beamer WG (2007) LH analog and dietary isoflavones support ovarian granulosa cell tumour development in a spontaneous mouse model *Endocrine Related Cander*. 14:369-379

Engle RE, **Russell RS**, Purcell RH, Bukh J (2008) Development of a TaqMan assay for the six major genotypes of hepatitis C virus: comparison with commercial assays. *Journal of Medical Virology*. 80(1):72-9.

Good WV, **Gendron RL** (2007) Genetic susceptibility to retinopathy of prematurity—the evidence from clinical and experimental animal studies. *Br J Ophthalmol* 91(12): 1577

Guild S-J, Barrett C, McBryde F, **Van Vliet BN**, Malpas S (2008) Sampling cardiovascular of data; how often and how much? *American Journal of Physiology, Regulatory, Integrative and Comparative Physiology*;295(2):R510-5.

Gujar SA, Guy CS, Wang J, **Michalak TI** (2008) Aberrant lymphocyte activation precedes delayed virus-specific T-cell response after both primary infection and secondary exposure to hepadnavirus in the woodchuck model of hepatitis B virus infection. *Journal of Virology* 82: 6992-7008.

Guy CS, Rankin S, Wang J, **Michalak TI** (2008) Hepatocytes express perforin and can mediate apoptosis of susceptible target cells via granule exocytosis. *Hepatology* 47: 1692-1701.

Guy CS, Mulrooney-Cousins PM, Churchill ND, **Michalak TI** (2008) Intrahepatic expression of genes affiliated with innate and adaptive immune responses immediately after invasion and during acute infection with woodchuck hepadnavirus. *Journal of Virology* 82: 8579-8591.

Guy CS, **Michalak TI** (2008) Hepatocytes as cytotoxic effector cells. *Current Immunology Reviews* 4: 215-220 (*invited review*).

**Hansen PA**. Learning to Teach: An evolution in fits and starts, *The Physiologist*, 51: 173-176, 2008

**Hansen PA**, Roberts KB, Richardson DR. *The Physiology of Human Situations*, undergraduate textbook under contract with Grandview Publishing, Mesa, AZ (manuscript being edited and art prepared professionally)

Heale C, Fåhraeus-Van Ree G, Rahman P, **Richardson V** (2007) . Progressive and Concordant Expression of PKC- $\eta$  and iNOS Phenotypes in Monocytes from Patients with Rheumatoid Arthritis: Association with Disease Severity. *J Histochem Cytochem* 55, 495-503

Hicks AU, Lappalainen RS, Narkilahti S, Suuronen R, **Corbett D**, Sivenius J, Jolkkonen J, Hovatta O. The effects of transplantation of human embryonic stem cell derived neural precursor cells after cortical stroke in rats. *Eur. J. Neurosci.* 2008, in press.

Hicks AU, MacLellan CL, Chernenko GA, **Corbett D**. Long term assessment of enriched housing and subventricular zone (SVZ) stem cell transplantation after focal ischemia in rats. *Brain Res* 2008, 1231, 103-112.

**Hirasawa M**, Parsons MP, Alberto C (2007) Interaction between orexins and the mesolimbic system for overriding satiety. *Rev. Neurosci.* 18:383-393. Invited review

**Hirasawa M**, Xu X, Trask R, Maddatu, TP, Johnson BA, Ackerman SL, Naggert JK, Nishina PM, Ikeda A (2007) *Car8* mutation results in aberrant synaptic morphology and impaired excitatory synaptic function in the cerebellum. *Mol. Cell. Neurosci.* 35(1):161-70.

Hirose M, **Stuyvers B**, Dun W, ter Keurs H, Boyden PA. Wide long lasting perinuclear Ca<sup>2+</sup> release events generated by an interaction between ryanodine and IP3 receptors in canine Purkinje cells. *Journal of Molecular and Cellular Cardiology.* 2008 Aug. 45(2):176-84.

Hirose M, **Stuyvers B**, Dun W, ter Keurs H, Boyden P. Function of Ca<sup>2+</sup> Release Channels in Purkinje Cells that Survived in the Infarcted Canine Heart. A Mechanism for Triggered Purkinje Ectopy. *Circulation; Arrhythmia Electrophysiology* 2008;1;387-395.

Jacobsen K, **Vanderluit JL**, Slack RS, Albert PR (2007). Coordinate actions of Hes1, Hes5, Hes6 and DEAF1 on the 5-HT<sub>1A</sub> receptor gene transcription at a functional polymorphism: Essential role in developmental expression. (submitted *Journal of Neuroscience*).

Jacobsen K, **Vanderluit JL**, Slack RS, Albert, PR. Coordinate actions of Hes1, Hes5, Hes6 and DEAF1 on the 5-HT<sub>1A</sub> receptor gene transcription at a functional polymorphism: Essential role in developmental expression. *Molecular and Cellular Neuroscience*, 38(3):349-58.

Jiang H, Li H, Carayanniotis K, **Carayanniotis G** (2007) Variable influences of iodine on the T-cell recognition of a single thyroglobulin epitope. *Immunology* 121:370-6

Kao KR, Green KA, Ford RL, Paterno GC, **Gillespie LL** (2007) Regulation of Nodal-dependent mesoderm differentiation by Re/NF- $\kappa$ B in *Xenopus* germ layer formation. *Dev. Biol.* 311:383-395

Kennedy CR, Xiong H, Rahal S, **Vanderluit JL**, Slack RS, Zhang Y, Guan Y, Breyer MD, Hebert RL (2007) Urine concentrating defect in prostaglandin EP1-deficient mice. *American Journal of Physiology*. 292(2):F868-75.

Kennedy M, Green K, Ford R, Paterno G, Gillespie L, **Kao K** (2007) Regulation of the response to Nodal-mediated mesoderm induction by Xrel 3 in *Xenopus* embryos. *Developmental Biology* 311:383-395.

Kennedy MW, Green KA, Ford RL, Andrews PG, **Paterno GD**, Gillespie LL, Kao KR. Regulation of the response to Nodal-mediated mesoderm induction by Xrel3. *Devel. Biol.* 2007 Nov 15;311(2):383-95. Epub 2007 Aug 29.

**Kibble J** (2007) Use of unsupervised online quizzes as formative assessment in a medical physiology course: effects of incentives on student participation and performance. *Adv Physiol Educ.* 31:253-260.

**Kibble J**, Kingsbury J, Ramirez BU, Schlegel WM, Sokolove P (2007) Effective use of course management systems to enhance student learning: Experimental Biology. *Adv Physiol Educ* 31:377-379

**Kibble & Halsey**: Medical Physiology: The Big Picture. McGraw-Hill, New York ISBN: 0071485678 (Manuscript in final preparation, pub date Nov 08).

Langdon KD, Granter-Button S, **Corbett D**. Persistent behavioural impairments and neuroinflammation following global ischemia in the rat. *Eur. J. Neurosci.*, 2008, 28, 2310-2318.

Li H, **Carayanniotis, G** (2007) Induction of goitrous hypothyroidism by dietary iodine in SJL mice. *Endocrinology* 48:2747-52

Li H, Jiang H, **Carayanniotis G** (2007) Modifying effects of iodine on the immunogenicity of thyroglobulin peptides. *J. Autoimmunity* 28:171-6

Liu Y, Dore J, and **Chen X** (2007) Calcium influx through L-type channels generates protein kinase M to induce burst firing of dopamine cells in the rat ventral tegmental area. *J. Biol. Chem.* 282:8594-8603.

Liu Y, **Chen X**. Cholinergic excitation of dopaminergic cells depends on dequential activation of protein kinase C and the L-type calcium channel in ventral tegmental area slices. *Brain Res.* 2008 in press.

MacLellan CL, Langdon KD, Churchill K, Granter-Button S, **Corbett D**. Assessing cognitive function after intracerebral hemorrhage in rats. *Behav Brain Res* 2008, in press.

MacParland SA, Pham TNQ, Guy CS, **Michalak TI** (2009) Hepatitis C virus persisting at low levels after clinically apparent sustained virological response to antiviral therapy retains its infectivity in vitro. *Hepatology (in press)*.

Makinen S, van Groen, T, Clarke J, Thornell A, **Corbett D**, Soininen H, Jolkkonen J. Coaccumulation of calcium and  $\beta$ -amyloid in the thalamus following transient middle cerebral artery occlusion in human  $\beta$ -amyloid precursor protein (APP) overexpressing rats. *J Cereb Blood Flow Metab*, 2008, 28, 263-268.

Mandal S, Berubé G, Asselin E, Richardson V, **Church J**, Bridson J, Pham T, Pramanik S, Mandal S (2007) A new platinum complex of triazine demonstrates G1 arrest with novel biological profile in human breast cancer cell line, MDA-MB-468. *Bioorganic & Medicinal Chemistry Letters* 17:2139-2145

Mandel S, Bérubé G, Asselin E, **Richardson V**, Gupta A, Pramanik S, Mandal S (2007). A novel series of potent cytotoxic agents targeting G2/M phase of the cell cycle and demonstrating cell killing by apoptosis in MDA-MB-468 human breast cancer cell line. *Bioorganic and Medicinal Chemistry Letter* (2007)

Mandal S, Bérubé G, Asselin E, **Richardson V**, Church J, Bridson J, Pham T, Pramanik S, Mandal S (2007). A new platinum complex of triazine demonstrates G1 arrest with novel biological profile in human breast cancer cell line, MDA-MB-468. *Bioorganic and Medicinal Chemistry Letters*, 17, 2139-2145.

Matthews M, Burse G, Park A, Hodgson P, West P, **Church J** (2007) Increasing Public and Provider Knowledge of Lymphedema: Evaluation of the Lymphedema Roadshow. *J Cancer Educ.* 22:105 – 107

Martin DT, **Gendron RL**, Jarzembowski JA, Perry A, Collins MH, Pushpanathan C, Miskiewicz E, Castle VP, Paradis H (2007) Tubedown expression correlates with the differentiation status and aggressiveness of neuroblastic tumors. *Clin Cancer Res*: 13(5):1480-1487. This paper was highlighted in *Nature Clinical Practice Oncology*: "Tubedown expression is a novel independent prognostic factor for neuroblastoma", *Nature Clinical Practice Oncology* 2007 4:329-330.

Martin DT, Gendron RL, Jarzembowski JA, Perry A, Collins MH, Pushpanathan C, Miskiewicz E, Castle VP, **Paradis H**. Tubedown expression correlates with the differentiation status and aggressiveness of neuroblastic tumors. (2007) *Clinical Cancer Res*. 13, 1480-1487. This paper was highlighted in *Nature Clinical Practice Oncology*: "Tubedown expression is a novel independent prognostic factor for neuroblastoma", *Nature Clinical Practice Oncology* 2007; 4, 329-330.

McCarthy PL, Mercer FC, Savicky MW, Carter BA, **Paterno GD**, Gillespie LL. Changes in subcellular localisation of MI-ER1 alpha, a novel oestrogen receptor-alpha interacting protein, is associated with breast cancer progression. *Br J Cancer*. 2008 Aug 19;99(4):639-46. Epub 2008 Jul 29.

McClellan KA, Ruzhynsky VA, Douda DN, **Vanderluit JL**, Ferguson KL, Chen D, Bremner R, Park DS, Leone G, Slack RS (2007) A unique requirement for Rb/E2F3 in neuronal migration: Evidence for cell cycle independent functions. *Molecular & Cellular Biology*, 27(13):4825-4843.

McClellan KA\*, **Vanderluit JL\***, Julien LM, Park DS, Slack RS (2008) P107/E2F pathway regulates FGF2 responsiveness in neural precursor cells. (\*co-authors) *Molecular and Cellular Biology* .

**McGuire JJ**, Van Vliet BN, King JC, Giménez J, Halfyard SJ. Persistence of PAR2 relaxation in BPH/2 hypertensive mice.. *Pflügers Archiv European Journal of Physiology* 454:535-543, 2007.

**McGuire JJ, Van Vliet BN**, Halfyard SJ (2008) Blood pressures, heart rate and locomotor activity during salt loading and angiotensin II infusion in protease-activated receptor 2 (PAR2) knockout mice. *BMC Physiol*. 21:8-20.

**McGuire JJ, Van Vliet BN**, Gimenez, J, King JC, Halfyard SJ (2007) Persistence of PAR-2 vasodilation in BPJ/2 Hypertensive Mice. *Pflugers Arch*; 454(4):535-43

**McGuire JJ**, Van Vliet BN, Halfyard SJ Blood pressures, heart rate and locomotor activity during salt loading and angiotensin II infusion in protease-activated receptor 2 (PAR-2) knockout mice. *BMC Physiology* 8:20 <http://www.biomedcentral.com/1472-6793/8/20>

**McKay DW**. Blood pressure matters: A call to bare arms? (invited commentary) *CMAJ* 2008; 178 (5): 591-593 Hypertension Review Panel (DWM was a panel member).

Hypertension Guidelines for Family Practice 2008. *MUMS Guidelines clearing house*. ISBN 978-894332-07-1.

**McKay DW**. Unmasking “masked hypertension”. *Hypertension Canada* 2007; Bulletin No. 91: 5-6.

**McKay DW**, Godwin M, Chockalingam A. Practical advice for home blood pressure measurement. *Can J Cardiol*. 2007 May 15:23(7):577-80.

Meunier JC, **Russell RS**, Engle RH, Faulk KN, Purcell RH, Emerson SU (2008) Apolipoprotein C1 association with Hepatitis C Virus. *Journal of Virology*. 82(19):9647-56.

Meunier JC, **Russell RS**, Goossens V, Priem S, Walter H, Depla E, Union A, Faulk KN, Bukh J, Emerson SU, Purcell RH (2008) Isolation and characterization of broadly neutralizing human monoclonal antibodies to the e1 glycoprotein of hepatitis C virus. *Journal of Virology*. 82(2):966-73.

Meunier JC, **Russell RS**, Engle RE, Faulk K, Emerson SU, Purcell RH (2008) The Role of Apolipoprotein C1 in hepatitis C Virus Assembly, Infectivity, and Spread. Manuscript in revision at *J Virol*.

**Michalak TI**, Pham TNQ (2008) Anti-HCV core antibody: A potential new marker of occult and otherwise serologically silent HCV infection. *Journal of Hepatology* (invited editorial) (in press).

**Michalak TI**, Pham TNQ, Mulrooney-Cousins PM (2007) Molecular diagnosis of occult HCV and HBV infections. *Future Virology*, 2:451-465 (invited paper subjected to review process).

**Michalak TI** (2007) Characteristics and consequences of experimental occult hepatitis B virus infection in the woodchuck model of hepatitis B. *Current Topics in Virology*, 6: 1-13 (invited review).

Montani JP, **VanVliet BN** (2007) Integrative Renal Regulation of Sodium Excretion. In: Sodium in Health and Disease. *Michel Burnier (Ed). CRC Press*

Mulrooney-Cousins PM, **Michalak TI** (2007) Persistent occult hepatitis B virus infection: experimental findings and clinical implications. *World J. Gastroenterology*, 13: 5682-5686 (invited editorial).

Mulrooney-Cousins, PM, **Michalak, TI** (2008) Repeated passage of wild-type woodchuck hepatitis virus in lymphoid cells does not generate cell type-specific variants or alter virus infectivity. *Journal of Virology* 82: 7540-7550.

Padwal RJ, Hemmelgarn BR, Khan NA, Grover S, McAlister FA, **McKay DW**, Wilson T, Penner B, Burgess E, Bolli P, Hill MD, Mahon J, Myers MG, Abbott C, Schiffrin EL,



Honos G, Mann K, Tremblay G, Milot A, Cloutier L, Chockalingam A, Rabkin SW, Dawes MD, Touyz RM, Bell C, Burns KD, Ruzicka M, Campbell NR, Lebel M, Tobe SW; Canadian Hypertension Education Program. The 2008 Canadian Hypertension Education Program Recommendations for the management of hypertension: Part 1 – blood pressure measurement, diagnosis and assessment of risk. *Can J Cardiol*. 2008 Jun; 24(6):455-63.

Padwal RS, Hemmelgarn BR, McAlister FA, **McKay DW**, Grover S, Wilson T, Penner B, Burgess E, Bolli P, Hill M, Mahon J, Myers MG, Abbott C, Schiffrin EL, Honos G, Mann K, Tremblay G, Milot A, Cloutier L, Chockalingam A, Khan NA, Rabkin SW, Dawes M, Touyz RM, Tobe SW; for the Canadian Hypertension Education Program. The 2007 Canadian Hypertension Education Program recommendations for the management of hypertension: Part 1 -- blood pressure measurement, diagnosis and assessment of risk. *Can J Cardiol*. 2007 May 15;23(7):529-38.

Paradis H, Islam T, Tucker S, Tao L, Koubi S, **Gendron RL** (2008) Tubedown associates with cortactin and controls permeability of retinal endothelial cells to albumin. *J Cell Sci*. 121(Pt 12):1965-72.

**Paradis H**, Islam T, Tucker S, Tao L, Koubi S, Gendron RL  
Tubedown associates with cortactin and controls retinal endothelial cell permeability to albumin. (2008) *J. Cell Sci*. 121, 1965-1972.

Parsons M, Barrett L, Little C, **Grant M** (2008) Reining in Inflammation: Harnessing CD36 to Interleukin-10. *Endocrine, Metabolic and Immune Disorders-Drug Targets*, 8:184-191.

Penner SB, Campbell NR, Chockalingam A, Zarnke K, **Van Vliet B** (2007) Dietary sodium and cardiovascular outcomes: a rational approach. *Can J Cardiol*; 15;23 (7):567-72

Pham TNQ, King D, MacParland SA, McGrath JS, Reddy SB, Bursley FR, **Michalak TI** (2008) Hepatitis C virus replicates in the same immune cell subsets in chronic hepatitis C and occult infection. *Gastroenterology* 134:812-822.

Pham TNQ., **Michalak TI** (2008) Occult persistence and lymphotropism of hepatitis C virus infection. *World Journal of Gastroenterology* 14: 2789-2793 (invited editorial).

Pham TNQ, **Michalak TI** (2008) Hepatitis C virus in peripheral blood mononuclear cells of individuals with isolated anti-hepatitis C virus antibody reactivity. *Hepatology* 48: 349-350 (letter to Editor).

Pham TNQ, Mulrooney-Cousins PM, Mercer SE, MacParland SA, Ingot M, Zalewska M, Simon K, **Michalak TI** (2007) Antagonistic expression of hepatitis C virus and alpha interferon in lymphoid cells during persistent occult infection. *J. Viral Hepatitis*, 14:537-548.

Pham TNQ, Mercer SE, **Michalak TI** (2009). Chronic hepatitis C and persistent occult hepatitis C virus infection are characterized by distinct immune cell cytokine expression profiles. *Journal of Viral Hepatitis* (in press).

Pham T, Rahman P, Richardson V, in “Perspectives on NO in Physiology and Pathology”, Editors **Vernon J Richardson** and Alan V Wallace, *Research Signpost* 2009

Ploughman M, Windle V, White N, MacLellan CL, Doré JJE, **Corbett D**. Brain-derived neurotrophic factor contributes to recover of skilled reaching after focal ischemia in rats. *Stroke*, 2008, (in press).

Ploughman M, McCarthy J, Bossé M, Sullivan HJ, **Corbett D**. Does treadmill exercise improve performance of cognitive or upper extremity tasks in people with chronic stroke? A randomized cross-over trial. 2008, *Arch Phys Med Rehabil*, 2008, 89, 2041-2047.

Ploughman M, Granter-Button S, Chernenko G, Attwood Z, Tucker BA, **Mearow KM**, Corbett D. Exercise intensity influences the temporal profile of growth factors involved in neuronal plasticity following focal ischemia. *Brain Res*. 2007, 1150:207-16.

Quinlan M, **Hirasawa M**. Short-term potentiation of mEPSCs requires N-, P/Q- and L-type Ca<sup>++</sup> channels and mitochondria in the supraoptic nucleus. *J. Physiol*. 586(13):3147–3161.

Raimondo G, Allain JP, Brunetto MR, Buendia MA, Chen DS, Colombo M, Craxi A, Donato F, Ferrari C, Gaeta GB, Gerlich WH, Levrero M, Locarnini S, **Michalak TI**, Mondelli MU, Pawlotsky JM, Pollicino T, Prati D, Puoti M, Samuel D, Shouval D, Smedile A, Squadrito G, Trepo C, Villa E, Will H, Zanetti AR, Zoulim F (2008) Statements from the Taormina expert meeting on occult hepatitis B virus infection. *Journal of Hepatology* 49:652-657.

Ramos AJ, del Rocio C, Zhang M, Raychowdhury P, Green A, **MacPhee DJ**, Cantiello HF (2008) Morphological and electrical properties of human trophoblast choriocarcinoma, BeWo cells. *Placenta* 29:492-502.

Rankin SL, Guy C, Rahimtula M, **Mearow KM**. Neurotrophin-induced upregulation of p75NTR via a protein kinase C-delta-dependent mechanism. *Brain Res* 2008, 1217:10-24.

Rankin SL, Guy C, **Mearow KM**. Neurite Outgrowth is Enhanced by Laminin-Mediated Downregulation of the Low Affinity Neurotrophin Receptor, p75NTR. *J Neurochem* 2008, 107:799-813.

**Russell RS**<sup>†</sup>, Kawaguchi K\*, Meunier JC, Takikawa S, Faulk K, Bukh J, Purcell RH, Emerson SU (2008) Mutations in the putative HCV fusion peptide of E1 affect glycosylation of E2 and pseudotyped virus infectivity. Manuscript in press at *Journal of Viral Hepatitis*. (\*equal contribution; †corresponding author).

**Russell RS**, Meunier JC, Takikawa S, Faulk K, Engle RE, Bukh J, Purcell RH, Emerson SU (2008) Advantages of a single-cycle production assay to study cell culture-adaptive mutations of hepatitis C virus. *Proceedings of the National Academy of Sciences USA*. 105(11):4370-5.

Ruzhynsky VA, McClellan KA, **Vanderluit JL**, Jeong Y, Furimsky M, Park DS, Epstein DJ, Wallace VA, Slack RS (2007) Cell cycle regulator E2F4 is essential for the development of the ventral telencephalon. *Journal of Neuroscience* 27(22):5926-5935.

<sup>1</sup>Shynlova O, <sup>1</sup>Williams SJ, Draper H, White BG, **MacPhee DJ**, Lye SJ (2007) Uterine stretch regulates temporal and spatial expression of fibronectin protein and its  $\alpha 5$  integrin receptor in myometrium of unilaterally pregnant rats. *Biol Reprod* 77:880-888

Smeda JS, **McGuire JJ**. Effects of post-stroke losartan versus captopril treatment on cerebrovascular myogenic and endothelial function of SHRsp *Stroke* 38:1590-1596, 2007.

ter Keurs HE, Shinozaki T, Zhang YM, Zhang ML, Wakayama Y, Sugai Y, Kagaya Y, Miura M, Boyden PA, **Stuyvers BD**, Landesberg A. Sarcomere mechanics in uniform and non-uniform cardiac muscle: a link between pump function and arrhythmias. *Progress in Biophysics and Molecular Biology*. 2008 Jun-Jul; 97(2-3):312-31.

ter Keurs HE, Shinozaki T, Zhang YM, Wakayama Y, Sugai Y, Kagaya Y, Miura M, Boyden PA, **Stuyvers BD**, Landesberg A. Sarcomere mechanics in uniform and nonuniform cardiac muscle: a link between pump function and arrhythmias. *Annals of New York Academy of Science*. 2008 Mar;1123:79-95.

Thorne LB, McCarthy PL, Paterno, GD, **Gillespie LL** (2007) Protein expression of the transcriptional regulator MI-ER1 alpha in adult mouse tissues. *J. Mol. Histol.* 39:15-24

Thorne LB, McCarthy PL, **Paterno GD**, Gillespie LL. Protein expression of the transcriptional regulator MI-ER1 alpha in adult mouse tissues. *J Mol Histol.* 2008 Feb;39(1):15-24. Epub 2007 Jul 11.

Tucker B, **Mearow KM**. From receptor binding to cellular signalling: how the extracellular environment influences peripheral neuronal repair. *Can. J. Neurol Sci.* 2008, 35:551-566.

Tucker B, Rahimtula M, **Mearow KM**. Src and FAK are key early signalling intermediates required for neurite growth in NGF-responsive adult DRG neurons. *Cellular Signaling* 2008, 20:241-257.

**Van Vliet BN**, Montani J-P (2008) The Time Course of Salt-Induced Hypertension and Why it Matters. *Int J Obesity*. 32 (Suppl 6): S35 – S47.

**Van Vliet BN**, Chafe LL (2007) Effect of maternal eNOS genotype on blood pressure and activity in mice. *Hypertension*; 49(3):556-62

**Van Vliet BN**, Montani J-P (2008) The Time Course of Salt-Induced Hypertension and Why it Matters. *Int J Obesity*. In review.

Vanderhyden B, **Dorward AM**. "Ovarian Cancer and the Environment: Rodent Models" to appear in *Elsevier's Comprehensive Toxicology Reference Series* (2010).

**Vanderluit JL**, Wylie CA, McClellan KA, Ghanem N, Fortin A, Callaghan S, Park DS, Slack RS (2007) The Retinoblastoma family member, p107 regulates the rate of progenitor commitment to a neuronal fate. *Journal of Cell Biology*, 178(1):129-139.

Walsh SJ, Harley CW, **Corbett D**, Skinner, DM, Martin, GM. Ischemic lesions of dorsal CA1 hippocampus do not affect the ability of Mongolian gerbils to solve response, direction, or place problems. *Brain Res*, 2008, 1187:194-200.

Wang J, Gujar SA, Cova L, **Michalak TI** (2007) Bicistronic woodchuck hepatitis virus core and gamma interferon DNA vaccine can protect from hepatitis but does not elicit sterilizing antiviral immunity. *Journal of Virology*, **81**: 903-916.

## ***Presentations***

### **Invited Presentations**

**Carayanniotis G** (April 2007) "Triggering of thyroid autoimmunity by iodine". Thunder Bay Regional Health Sciences Centre, Thunder Bay, ON.

**Carayanniotis G** (November 2007) "Triggering of autoimmune thyroiditis by iodine". Fall Seminar Series, Biology Dept Memorial University of Newfoundland.

**Corbett D** (September 2008) Animal studies in stroke rehabilitation. Second National Stroke Rehabilitation Conference, Winnipeg, MB.

**Corbett D** (May 2008) How many stem cells does it take to mend a broken brain? Challenging the concepts of localization and recovery of brain function, Copenhagen, Denmark.

**Corbett D** (May 2008) Does the injured brain ever recover? Challenging the concepts of localization and recovery of brain function, Copenhagen, Denmark.

**Corbett D** (May 2008) Neuroplasticity and recovery of motor and cognitive function after stroke. Fifth International Symposium on Neuroprotection and Neurorepair, Cerebral Ischemia and Stroke, Magdeburg, Germany.

**Corbett D** (March 2008) An enriching experience: Translating research from animal models of stroke into clinical practice, Dept of Psychology, Dalhousie University, Halifax, NS.

**Dorward A** (October 2007) Annual meeting of the IHDCYH internal advisory board, forum presentation at Memorial University: "Mouse models of reproductive disorders".

**Dorward A** (December 2007) Biochemistry Departmental Seminar Series: "Mus@MUN: Modeling human disease in the laboratory mouse.

**Dorwood A** (December 2007) Faculty of Medicine Lunchtime Seminar Series: "Mus@MUN: Modeling human disease in the laboratory mouse.

**Drover S** (May 2008) Invited and will be presenting at the CBCRA-sponsored Reasons for Hope conference in Vancouver, BC.

**Grant M** (September 2007) "KIR3DS1, HLA-Bw4 80I and Protection from AIDS: What Lies Beneath?" Canadian Blood Services, Toronto, ON.

**Grant M** (September 2007) Interaction Between KIR3DS1 and HLA-Bw4 Delays Progression to AIDS. How? 7<sup>th</sup> Atlantic collaboration for HIV Education Meeting Moncton, NB.

**Grant M** (August 2007) Missing, Matching and Unmasking: Regulation of NK Cells by HLA Class I. 2<sup>nd</sup> Memorial University Immunology Program Retreat. The Wilds, Salmonier, NL.

**Hansen P** (April 2008) *Symposium: Is formative assessment an effective way to improve learning?* Co-chair with Dr. Jon Kibble, at Experimental Biology 08, San Diego, CA

**Hansen P** (June 2008) Workshop: Active learning in the classroom, at the American University of the Caribbean School of Medicine.

**Hansen P** (October 2008) *Bringing Physiology Alive for Students: A workshop on active learning in lectures and laboratories*, with Dr. Beatriz Ramirez, Mg., at XIII Reunion Annual de la Sociedad Chilena de Ciencias Fisiologicas, XVII Congreso Asociacion Latinoamericana de Farmacologia, III Congreso Iberoamericano de Farmacologia, XXX Congreso Annual de la Sociedad de Farmacologia de Chile, Coquimbo, Chile.

**Hansen P** (October 2008) Workshop: *Teaching methods to facilitate intellectual participation of students in their learning*, with Dr. Beatriz Ramirez, at Universidad de Santiago de Chile (USACH), Santiago, Chili.

**Harris J** (September – November 2007) Financial Health seminars by MD Mgmt for 1<sup>st</sup>-year students.

**Harris J** (September – November 2008) Financial Health seminars by MD Mgmt for 1<sup>st</sup>-year students.

**Harris J** (April 2008) Personality Typing Workshop for 1<sup>st</sup>-year medical students.

**Harris J** (May 2008) AFMC Annual Meeting, Montreal, QC, National Career Counselling Program, AFMC Committee on Admissions & Student Affairs.

**Harris J** (June 2008) MedCAREERS Program, Faculty of Medicine, “Resumes and Personal Statements”

**McKay D** (February 2007) CBC radio “Cross Talk”- 50 minute interview/call-in show with co-guest Dr. R. Helleur discussing xenobiotics.

**McKay D** (October 2008) Home blood pressure measurement in clinical practice. Recommended uses of HBPM. Canadian Cardiovascular Congress, Toronto, ON.

Cloutier L, **McKay D** (October 2008) Home blood pressure measurement in clinical practice. Getting the patient involved in HBPM. Canadian Cardiovascular Congress, Toronto, ON.

**McLean J** (June 2007) Canadian College of Neuropsychopharmacology, Banff, AB. “The long and short of cAMP in early olfactory learning”

**Michalak T** (May 2007) “Hepatitis C Virus Lympotropism and Occult Persistence”. Guest speaker invited to present lecture at the Twentieth International conference on Antiviral Research, Palm Springs, CA

**Michalak T** (March 2008) “The Woodchuck Model of Occult Viral Hepatitis”. Invited speaker at the International Consensus Conference: “Occult Hepatitis B Virus Infection: Biology and Clinical Impact”, Taormina, Sicily, Italy.

**Michalak T** (June 2008) “Silent Persistent HCV Infection: Virological Characteristics and Clinical Implication”. Invited lecture speaker invited by the Faculty of Medicine, University of Saskatoon and the Vaccine and Infectious Disease Organization, Saskatoon, Canada.

**Michalak T** (July 2008) “Occult Hepatitis C Virus and Hepatitis B Virus Infections: Clinical Consequences and Therapeutic Interventions”. Invited speaker and the chair of session: “HCV Key Viral proteins, Drug Targets and the Corresponding Antiviral Therapeutics” at the World Summit of Antivirals, Kunming, Yunnan, China.

**Michalak T** (October 2008) “Molecular Diagnosis of Occult Hepatitis C and B Virus Infections”. Invited lecture speaker at the International Conference on “Diagnosis of Blood-Borne Viral Infections – Challenges and Hopes for the 21<sup>st</sup> Century” organized by the National Institute of Hygiene and Public Health and Polish Academy of Science, Waresay-Zegrze, Poland.

**Michalak T** (December 2008) “Occult Hepatitis B and Hepatitis C Virus Infections: Identification, Characteristics and Clinical Implications”. The Hoffman-LaRoche Professor Lectureship invited to present lecture at the Department of Gastroenterology, Queen’s University, Kingston, ON.

**Neuman R** (February 2007) Invited Co-chair Research Ethics and Scientific Integrity and invited speaker on Research Ethics. Western Pharmacological Society Meeting, Banff, AB.

**Neuman R** (February 2007) Invited speaker, Research Ethics from the Chair’s perspective. National Council on Ethics in Human Research, Ottawa.

**Neuman R** (June 2007) Invited presentations (2), open meeting and meeting of research ethics board. Health Research Ethics, Central Regional Health Board.

**Neuman R** (November 2007) Health Research Ethics, Labrador and Grenville Regional Health Authority, Research Ethics Board and first nations representatives, Goose Bay, NL.

**Neuman R** (September 2007) Health Research Ethics, Management, physicians, research ethics board, Western Regional Health Authority, Corner Brook, NL.

**Neuman R** (October 2007) Invited to present on research ethics governance in NL on teleconference meeting between National Council on Ethics in Human Research and U.S. Health and Human Services branches (Office of Human Research Protection, FDA, ETC).

**Neuman R** (October 2007) Health Research Ethics Authority, Centre for Nursing Studies.

**Neuman R** (November 2007) Health Research Ethics Authority, Primary Health Care Research.

**Neuman R** (November 2007) Health Research Ethics Authority NCTRF.

**Richardson V** (November 2007) Immuno-regulatory compounds from the Thunder-God vine. Nottingham Trent University, Chemistry Seminar Series.

**Richardson V** (December 2007) PKC- $\eta$  influences the NOS2 phenotype expression by monocytes from patients with rheumatoid arthritis: Modulatory effects of anticytokine therapies. UK Nitric Oxide forum University of Bradford.

**Russell R** (January 2008) “Novel Systems for Culturing Hepatitis C Virus”. Invited by Drs. Don Anthony and Eric Arts to establish scientific collaboration, Case Western Reserve University, Cleveland, Ohio.

**Russell R** (March 2008) "Hepatitis C Virus: Why does it like lipids". Invited by Dr. Martin Mulligan to present an update on HCV research to the Dept. of Biochemistry, Memorial University of Newfoundland, St. John's, NL.

**Russell R** (October 2008) "Determinants of infectious Hepatitis C Virus Production". Invited by Dr. Michael Joyce to present in the Alberta Institute for Viral Immunology Seminar Series, University of Alberta, Edmonton, AB.

**Van Vliet B** (March 2008) "Epidemiology of Salt-Induced hypertension". Department of Physiology and Biophysics, Univ. Mississippi Medical Centre

**Van Vliet B** (June 2008) "Salt induced hypertension: epidemiology and mechanisms" (Symposium on salt and health), Canadian Society of Nephrology, London, ON.

**Van Vliet B** (October 2008) "The Time Course of Salt Induced Hypertension, and Why It Matters". Presented to the Faculty of Medicine's Lunchtime Seminar Series, Memorial University.

**Van Vliet B** (September 2007) "Salt and Blood Pressure: dynamics and mechanisms". Presented to the School of Engineering, National University of Ireland Maynooth, Dublin.

**Van Vliet B** (September 2007) "Salty foods in the pathogenesis of cardiovascular disease". Presented at a symposium "Pathways from dysfunctional foods to obesity and metabolic syndrome", FORC2007 meeting, Fribourg, Switzerland.

### **Conference Presentations**

Boyden P, ter Keurs H, **Stuyvers B** (June 2008) Cardiostim 2008; 16<sup>th</sup> World Congress in Cardiac electrophysiology and Cardiac Techniques. Arrhythmogenicity in post-MI Heart, a convergence of cellular Ca<sup>2+</sup> abnormalities as revealed by scanning confocal microscopy of canine Purkinje cells.

**Carayanniotis G** (June 2007) "Introduction of goitrous hypothyroidism by dietary iodide in mice". 18<sup>th</sup> Annual Meeting, Atlantic Endocrine Society, Wolfville, NS. (oral presentation)

**Carayanniotis G** (October 2007) "Suppression of thyroiditis in mice expressing a transgenic TcR specific for a thyroglobulin peptide may reflect involvement of regulatory T cells". 78<sup>th</sup> Annual Meeting of the American Thyroid Association, New York. (poster presentation)

Castrodad R, Alberto C, **Hirasawa M** (2008) Nociceptin inhibits orexin neurons through activation of ATP-sensitive potassium channels. RISE 19<sup>th</sup> Annual Symposium

Christian S, Collier T, Hough C, **Hirasawa K** (2008) Downregulation of STAT2 mediates the Ras/Raf/MEK pathway-induced inhibition of the IFN-alpha antiviral response. 8<sup>th</sup> Conference on Signaling in normal and Cancer Cells, Banff, AB.



Clarke J, Mala H, Windle V, Chernenko G, **Corbett D.** (May 2008) The effects of repeated rehabilitation “tune-ups” on functional recovery after stroke. Canadian Association for Neuroscience 2<sup>nd</sup> Annual General Meeting, Montreal, QC. (Abstr)

Deemyad T, McLean J, Adamec R, **Chen X** (2007) Distribution of KCNQ3 channels in midbrain dopamine cells of a neurodevelopmental rat model of schizophrenia. Canadian Association of Neuroscience Annual Meeting, Toronto, Canada. (Abstr)

Deemyad T, McLean J, Adamec R, **Chen X** (2007) Expression of SK3 channels in the VTA in a rat model of schizophrenia following neonatal ventral hippocampus lesion. Society of Neuroscience Annual Meeting, San Diego, USA. (Abstr)

**Grant M** (March 2007) Stimulation of Monocyte Interleukin-10 Production by Monoclonal Antibody 1F7. Chris Little, Tigran Davtyan and Michael Grant. 21<sup>st</sup> Spring Meeting of the Canadian Society for Immunology, Lake Louise, AB.

**Grant M** (October 2008) Presentation on large team grant RFA at CIHR workshop on Canadian HIV Vaccine Initiative, Cape Town, South Africa.

Hewlett K, Kelly M, **Corbett D** (May 2008) Altered psychosocial behaviour following “minor stroke” in the rat. 5<sup>th</sup> International Symposium on Neuroprotection and Neurorepair: Cerebral Ischemia and Stroke, Magdeburg, Germany (Abstr)

**Hirasawa K**, Collier T, Hough C (2007) Suppression of STAT2 underlies modulation of IFN-induced antiviral response by the Ras/Raf/MEK pathway. 26<sup>th</sup> Annual Meeting of American Society for Virology, Oregon State University

**Hirasawa M**, Parsons MP (2007) Nociceptin/orphanin FQ induces irreversible activation of GIRK channels in orexin neurons. Can Assoc Neuroscie Meeting (Abstr)

**Kao K** (January 2007) AACR special Conferences: “At the forefront of basic and transitional cancer research”-Joint AACR/JCA conference. Waikoloa, HI, presentation (with C. Popadiuk): “Activation of the human Pygopus 2 gene promoter by the ELF-1 transcription factor in breast cancer cells”

King MT, Nafar F, **Mearow KM.** Hsp27 protects cortical neurons against amyloid induced cell death. 2008, Canadian Association for Neuroscience Annual Meeting, Montreal, QC.

Langdon K, MacLellan C, Churchill K, Granter-Button S, **Corbett D.** (May 2008) Assessing cognitive function after intracerebral hemorrhage in rats. Canadian Association of Neuroscience 2<sup>nd</sup> Annual General Meeting, Montreal, QC. (Abstr)

Legrand J, Arbour N, **Vanderluit J**, Cheung E, McBride H, Rippstein P, Opferman J, Park D, Slack R. (September 2007) Mcl1 regulates apoptosis and autophagy in neuronal survival. Cold Spring Harbour Cell Death Meeting, Long Island, New York, New York, USA. (Abstr)

Legrand J, Arbour N, **Vanderluit J**, Cheung E, Opferman J, Park D, Slack R (May 2007) Mcl1 is required for neuronal survival. Canadian Association for Neuroscience, Toronto, ON. (Abstr)

Legrand J, Arbour N, **Vanderluit J**, Cheung E, Opferman J, Park D, Slack R (November 2007) Mcl1 is required for neuronal survival. Society for Neuroscience Annual General Meeting, Atlanta, Georgia. (Abstr)

Licursi M, **Hirasawa K** (2007) Viral IRES-mediated translation under amino acid starvation. 8<sup>th</sup> International Symposium on Positive-Strand RNA viruses, Washington, DC.

Licursi M, **Hirasawa K** (2008) Viral IRES-mediated translation under amino acid starvation. 8<sup>th</sup> Conference and Signaling in normal and Cancer Cells, Banff, AB.

Liu Y, **Chen X** (2007) Role of protein kinase C in mediating AMPA-, NMDA- and carbachol-induced excitation of dopamine neurons in the ventral tegmental area. Society for Neuroscience Annual Meeting, San Diego, USA. (Abstr)

MacLellan C, Cumby N, Granter-Button S, Hewlett K, McKay K, Chernenko G, **Corbett D** (May 2008) Rehabilitation enhances transplanted SVZ cell survival after focal ischemia in rats. Canadian Association of Neuroscience 2<sup>nd</sup> Annual Meeting, Montreal, QC. (Abstr)

MacLellan C, Cumby N, Granter-Button S, Hewlett K, McKay K, Chernenko G, **Corbett D** (May 2008) Rehabilitation augments stem cell transplantation after focal ischemia in rats. 5<sup>th</sup> International Symposium on Neuroprotection and neurorepair: Cerebral Ischemia and Stroke, Magdeburg, Germany (Abstr)

**MacPhee D** (2008) Faculty Development Seminar. *Fine Tuning Your CV and Teaching Dossier*. Faculty of Medicine, Memorial University of Newfoundland.

**MacPhee D** (April 2008) Biochemical Signaling in Human Placental Development. Faculty of Science, University of Puerto Rico-Cayey Campus, Cayey, Puerto Rico.

**Michalak T** (February 2007) "Hepadnavirus infection enhances hepatocyte-mediated cell killing dependent upon both CD95 ligand and perforin pathways". Podium presentation at the Third Annual Winter Meeting of the Canadian Association for the Study of the Liver, Banff, AB

**Michalak T** (November 2008) "Intrahepatic Expression of Genes Affiliated with Innate and Adaptive Immune Responses Immediately after Invasion and during Acute Infection with Woodchuck Hepadnavirus". Podium presentation at the Fifty-Ninth Annual Meeting of the American Association for the Study of Liver Diseases, San Francisco, CA

**Michalak T** (September 2007) “Experimental Occult Hepadnaviral Infection”. Speaker and organizer of the workshop: “Occult Hepadnavirus Infection” at The 2007 International Meeting on the Molecular Biology of Hepatitis B Viruses, Rome, Italy.

**Michalak T** (September 2007) “Induction of occult, lymphatic system-restricted infection by direct liver transfection with recombinant WHV DNA”. Podium presentation at The 2007 International Meeting on the Molecular Biology of Hepatitis B Viruses, Rome, Italy.

**Neuman R** (June) Health Research Ethics, presented to health unit Miapuket first Nation, Conn River, NL

**Neuman R** (November 2007) Health Research Ethics Authority, Coordinators and Sponsors Meeting, St. John’s, NL

**Neuman R** (November) Atlantic Canada 4 Rebs meeting in Halifax; Presentation on the Research Ethics application process.

Parsons MP, **Hirasawa M** (2007). Long term inhibition of orexin neurons: Irreversible GIRK channel activation induced by Nociceptin/Orphanin FQ. Soc. Neurosci. (Abstr)

Parsons MP, **Hirasawa M** (2008) Distinct mechanisms mediate nociceptin-induced inhibition of orexin and MCH neurons. Canadian Workshop on the Neurophysiology of Homeostasis.

Parsons MP, **Hirasawa M** (2008). Distinct mechanisms mediate nociceptin-induced inhibition of orexin and MCH neurons. Canadian Workshop on the Neurophysiology of Homeostasis

Parsons MP, **Hirasawa M** (2008). Role of ATP-sensitive potassium channels in orexin neurons. Can Assoc Neurosci Meeting (Abstr)

Parsons MS, Gallant M, Zipperlen K, **Grant M** (April 2008) NKG2D-independent Lysis of Uninfected CD4<sup>+</sup> T Cells by HLA-unrestricted CD56-CTL from HIV-infected Individuals. 22<sup>nd</sup> Canadian Society for Immunology Meeting. Mont-Tremblant, QC. (abstract-poster)

Parsons MS, **Grant M** (August 2008) Friendly fire in HIV infection: characterization of lymphocyte-mediated killing of activated uninfected CD4<sup>+</sup> T-lymphocytes. International AIDS Conference, Mexico City, Mexico. (Abstr)

Parsons MS, Zipperlen K, Gallant M, **Grant M** (November 2008) Antibody dependent cellular cytotoxicity: natural born killers or guns for hire? British Society for Immunology Annual Meeting, Glasgow, UK. (abstract – oral presentation)

Penney S, Gallant M, **Grant M** (April 2008) CD5 Expression Levels and HIV-specific CD8<sup>+</sup> T Cell Cross-reactivity. 22<sup>nd</sup> Canadian Society for Immunology Meeting, Mont-Tremblant, QC. (abstract-poster)

Penney S, **Grant M** (April 2008) T Cell Receptor Avidity for Viral Peptides Affects CD5 Expression and Cross-reactivity of CD8<sup>+</sup> T cells. 17<sup>th</sup> Canadian Association for HIV Research Conference, Montreal, QC. (abstract – oral presentation)

Pohling J, Gallant M, **Grant M** (April 2008) Evolution of HIV-specific CD8<sup>+</sup> T cell Responses Over Sustained Periods of Viral Replication or Suppression. 22<sup>nd</sup> Canadian Society for Immunology Meeting, Mont-Tremblant, QC. (abstract-poster)

Pohling J, **Grant M** (April 2008) Evolution of HIV-specific CD8<sup>+</sup> T cell Subsets During Sustained Periods of Viral Replication and Antiretroviral Suppression. 17<sup>th</sup> Canadian Association for HIV Research Conference, Montreal, QC. (abstract-poster)

Quinlan M, **Hirasawa M** (2007). Distinct sources of intracellular calcium underlie the maintenance of posttetanic potentiation of miniature EPSC frequency and amplitude in the supraoptic nucleus. Soc. Neurosci. (Abstr)

Quinlan M, **Hirasawa M** (2008) Metaplasticity in the supraoptic nucleus? Canadian Workshop on the Neurophysiology of Homeostasis.

Quinlan M, **Hirasawa M** (2008). Metaplasticity in the supraoptic nucleus? Canadian Workshop on the Neurophysiology of Homeostasis.

Rankin SL, Guy CS, Rahimtula M, **Mearow KM**. Neurotrophin-induced upregulation of p75NTR via protein kinase C-delta-dependent mechanism. 2007, ASCB Abstracts 2017, American Society for Cell Biology Meeting, Washington, DC.

**Richardson V** (December 2007) 8<sup>th</sup> UK Nitric Oxide forum. “PKC-eta influences on NOS2 Phenotype expression in monocytes from patients with theumatoid arthritis>]: Modulating effects of anti-cytokine therapy”.

**Tabrizchi R**, Ford CR, Mong K (2006) Influence of tangential stress and perivascular adipose tissue on vascular function. Can Cardiovasc Cong.

**Tabrizchi R**, Guo L (2007) Effect of noradrenaline in hyperdynamic state. Can Cardiovasc Cong.

**Van Vliet B** (April 2007) “Salt and Blood pressure: another inconvenient truth” Bioengineering Institute, Auckland, NZ.

**Van Vliet B** (May 2007) “Salt and Blood pressure: modeling the epidemiology and mechanisms”, Monash University.

**Van Vliet B** (May 2008) “Biology of Salt effects on blood pressure and kidney (in the long term)”, Canadian Society of Nephrology.

**Van Vliet B** (September 2007) “Salt and Blood Pressure: dynamics and mechanisms”, National University of Ireland , Maynooth, Dublin.

**Van Vliet B** (September 2007) "Salty foods in the pathogenesis of cardiovascular disease". FORC2007 meeting, Fribourg, Switzerland.

**Vanderluit J** (May 2008) Canadian Association for Neuroscience Annual General Meeting, Montreal.

**Vanderluit J** (November 2008) Canadian Stroke Network Annual General Meeting, Vancouver.

**Vanderluit J** (November 2008) CIHR New Investigator Meeting, Toronto.

**Vanderluit J**, Arbour N, Legrand J, Jahani-asl A, Cheung E, Kelly M, Opferman J, Slack R (November 2007) Mcl-1 is a key regulator of apoptosis in the nervous system. Stem Cell Network Annual General Meeting.

**Vanderluit J**, Arbour N, Legrand J, Jahani-asl A, Cheung E, Kelly M, Opferman J, Slack R (May 2008) Mcl-1 is a key regulator of apoptosis in the nervous system. Canadian Association for Neuroscience Annual General Meeting. (Abstr)

White B, **MacPhee D** (May 2008) Mechanical stretch and 17 $\beta$ -estradiol regulate HspB1 (Hsp27) expression in the rat myometrium. *41st Annual Meeting of the Society for the Study of Reproduction: "Reproductive Biology: Basic Discoveries that Affect our Lives"*. Kailua-Lona, Big Island, Hawaii. (poster presentation)

Williams KL, Rahimtula M, **Mearow KM**. Hsp27 plays a role in neurite growth independent of its chaperone-like activity and role in thermoprotection. 2007, ASCB Abstracts 978, American Society for Cell Biology Meetings, Washington, DC.

Zu D, Codner D, **Hirasawa K** (2007) Possible involvement of the Ras/Ras/MEK pathway in cancer cellular resistance to IFN. 26<sup>th</sup> Annual Meeting of American Society for Virology, Oregon State University

## ***Research Funding in the Division of BioMedical Sciences***

### **Carayanniotis, G**

CIHR – Immunoregulation of experimental autoimmune thyroiditis. 2003-2008 - \$126,008 p.a.

CIHR – Immunoregulation of experimental autoimmune thyroiditis. 2008-2013 - \$126,786 p.a. (approved)

### **Chen, X**

NSERC – Contribution of L-type Ca<sup>2+</sup> channel subtypes to burst firing of dopaminergic cells in the mouse ventral tegmental area. Discovery Grant, \$57,287/year for 5 years

**Corbett, D**

Canada Research Chairs Program – Stroke and Neuroplasticity. 2003-2010 - \$1,400,000.

CIHR – Recovery of Function. 2006-2009 - \$287,466.

**Dorward, A**

Canadian Research Chair – (Tier 2). Salary award. 2007 – \$100,000/year for 5 years.

Canadian Foundation of Innovation. Mouse Models for Reproductive Cancer Research. Infrastructure award. 2007 – \$125,000.

RPP/CIHR and CIHR-IHDCYH. Genetic Determinants for Juvenile-Onset Ovarian Tumourigenesis. 2008 – 2011- \$219,520

**Drover, S**

CIHR-RPP – Immune parameters in breast carcinoma patients. 2006-2010 - \$251,836.

**Gendron, R**

CIHR – Principal Applicant Hélène Paradis. Tubedown in vision loss during aging and age related neovascular retinopathies. Operating grant. 2008-2012 - \$486,448.

CFI – Cellular Signaling Mechanisms in Growth Development and Disease. Infrastructure Operating Fund. 2005-2010 - \$150,000.

CIHR – Principal investigator Robert Gendron. Tubedown-1 in blood vessel health and disease. Operating grant. 2005-2008 - \$335,947.

CIHR - Principal investigator Hélène Paradis. Tubedown-1 in vision loss during aging and age-related neovascular retinopathies. Operating grant. 2006-2008 - \$204,824.

Canada Foundation for Innovation. Infrastructure Operating Fund Award (Project number 7411): “Cellular Signaling Mechanisms in Growth Development and Disease”, Project leader. Co-Investigators Hélène Paradis, PhD; Daniel MacPhee, PhD; Jules Doré, PhD. (total cost 2006-2011 - \$150,000)

CIHR - Principal Investigator Hélène Paradis, Co-Investigator Robert L. Gendron. Tubedown in vision loss during aging and age-related retinopathies. (Total cost 2008-2012 - \$486,448)

**Gillespie, L**

CIHR – Investigation into the role of MI-ER1 $\alpha$ , a novel ER co-regulator. 2005-2009 - \$473,308.

NSERC – Regulation and function of a novel fibroblast growth factor early response gene in embryonic development and cell differentiation. Co-awarded with Dr. G. Paterno. 2007-2009 - \$56,000.

**Grant, M**

CIHR – Subset Distribution of HIV-specific CD8<sup>+</sup> Memory T cells. 2006-2010 - \$444,000.

CANFAR – Identification of Conserved Epitopes in Drug resistant HIV. 2007-2008 - \$156,000.

**Hirasawa, K**

NSERC – Viral IRES-mediated translation under stress conditions. Discovery grant. 2006-2011 - \$170,000.

CIHR – Interaction of interferon-induced antiviral responses and Ras signaling pathways. Operating grant. 2005-2008 - \$277,186.

Medical Research Foundation – Possible down-regulation of CD24 expression of B cells by the Ras signaling pathway. 2008-2009 - \$10,000.

**Hirasawa, M**

CIHR – Central control of energy balance and food reinforcement. Operating grant. 2007-2012 - \$540,073

NSERC – Role of short-term potentiation of spontaneous excitatory transmission in the supraoptic nucleus. Discovery grant. 2004-2010 - \$147,550.

**Kao, K**

Cancer Research Society – H. Bliss Murphy Cancer Research Foundation grant-in-aid for Prostate Cancer research (Motorcycle Ride for Dad Foundation). Operating grant. 2008-2010 - \$119,500.

CIHR – Analysis of the B-cell Lymphoma-9/Pygopus protein complex in vertebrate body axis development. Operating grant. 2003-2008 - \$113,000.

CIHR/RPP - Analysis of the B-cell Lymphoma-9/Pygopus protein complex in vertebrate body axis development. Operating grant renewal. Awarded for one year under CIHR-RPP. 2008- 2009 \$109,169

**MacPhee, D**

NSERC – The Role of Focal Adhesion Signalling in Uterine Smooth Muscle during Pregnancy. Operating grant. 2007-2012 - \$160,000.

CIHR/RPP – The Role of Integrin-Linked Kinase in Human Trophoblast Differentiation. Operating grant. 2006-2008 - \$147,424.

**Mearow, K**

NSERC – Mechanisms of action of Hsp27 and stress-activated signaling. Discovery grant. 2008-2013 - \$160,000.

CIHR – Interactions of growth factor and integrin signaling pathways. Operating grant. 2006-2011 - \$501,055.

CIHR/RPP (IRIF) – Protection of CNS neurons: actions of small heat shock protein, Hsp27. Operating grant. 2006-2009 - \$275,000.

NSERC – Mechanisms of action of Hsp27 in stress-activated signaling. Discovery Grant. 2003-2008 - \$140,000.

**McGuire, J**

CIHR /RPP (Department of Innovation, Trade and Rural Development, Government of Newfoundland and Labrador) – Mechanisms to offset endothelial dysfunction in hypertension. Operating grant. 2008-2011 - \$284,767.

CIHR/RPP (Department of Innovation, Trade and Rural Development, Government of Newfoundland and Labrador) – Salary support- New Investigator Award. Personnel Awards /Regional Partnership Program. 2005-2010 - \$125,000.

CIHR /RPP (Department of Innovation, Trade and Rural Development, Government of Newfoundland and Labrador) Research Allowance (top-up to operating funds) – New Investigator Award. Personnel Awards-Regional Partnership Program. 2007-2008 - \$24,680.

Canada Foundation for Innovation – Laboratory for Integrative Cardiovascular-Renal Physiology and Experimental Therapeutics Research Infrastructure Operating Funds. 2007-2008 - \$15,885.

**McLean, J**

CIHR – A Window on Promoting Memory. 2004-2009 - \$479,418.

Synapse award in support of Brain Storm - \$5,000.

**Michalak, T**

National Institutes of Health/National Institute of Allergy and Infectious Diseases. The 2007 International Meeting on the Molecular Biology of Hepatitis B Viruses. Principal Applicant: William Mason; Chase Fox, Philadelphia. R-13 Grant to support scientific meeting. 2007 - \$30,000

Canada Research Chair Program and Canadian Institutes of Health Research. Senior (Tier1) Canada Research Chair in viral Hepatitis/Immunology. Salary award plus administrative costs. 2008-2015 - \$1,400,000.

Canada Foundation for Innovation – Infrastructure for Studies in Viral Hepatitis. Equipment grant. 2008-2010 - \$407,200.



**Paradis, H  l  ne**

CIHR/RPP Operating IRIF grant 0506-010. Tubedown-1 Blood vessel health and disease. Primary applicant: Robert Gendron, Co-applicant: H  l  ne Paradis. 2005-2008 - \$335,947.

Canada Foundation for Innovation. Infrastructure Operating Fund (IOF) Award (Project number 7411). "Cellular Signaling Mechanisms in Growth Development and Disease". Project leader Robert Gendron, PhD, Co-Investigators: H  l  ne Paradis, PhD, Daniel MacPhee, PhD, Jules Dor  , PhD. 2005-2010 - \$150,000.

Contact from Human Resources and Skills Development Canada supporting 60% of Research Technician salary. 2006-2007 - \$15,736.

CIHR/RPP Operating IRIF grant 0506-005. Tubedown-1 vision loss during aging and age-related neovascular retinopathies: Primary applicant: H  l  ne Paradis: Co-applicant: Robert Gendron. 2006-2008 -\$204,824.

CIHR – Tubedown in vision loss during age and age-related neovascular retinopathies. Primary applicant: H  l  ne Paradis, Co-applicant: Robert Gendron. 2008-2012 - \$486,448.

**Paterno, G**

CIHR – Investigation into the role of MI-ER1  , a novel ER co-regulator. 2005-2009 - \$473,308.

NSERC – Regulation and function of a novel fibroblast growth factor early response gene in embryonic development and cell differentiation. Co-awarded with Dr. G. Paterno. 2007-2009 - \$56,000.

**Richardson, V**

Medical Research Foundation, *In vitro* comparison of Triptolide and JPK-101: Possible alternatives to anti-cytokine therapies for inflammatory diseases. 2008-2009 - \$10,000.

**Russell, R**

Medical Research Foundation Award – The Role of the E1 glycoprotein in entry and fusion of hepatitis C virus in a fully infectious virus culture system. Operating award - \$10,000.

Wallace Ingram Award for New Faculty. The Role of the HCV Core Protein in Virus Assembly. Operating award - \$10,000.

Canadian Foundation for Innovation – Viral and cellular determinants of hepatitis C virus assembly. Equipment award - \$250,000.

**Tabrizchi, R**

NSERC, Discovery Grant. Control of vascular smooth muscle tone 2006-2011 - \$29,100.

HSF – Pharmacology. Drugs and venous system. 2007-2010 - \$34,684.

**Van Vliet, B**

Canadian Institutes of Health Research – Hypertension, mechanisms of salt-sensitivity. 2007-2008 - \$48,780.

RPP/Department of Innovation, Trade and Rural Development, Government of Newfoundland and Labrador. Partnership funding for Hypertension, mechanisms of salt-sensitivity. 2007-2008 - \$48,780.

CIHR/RPP – Experimental Epidemiology of Salt-Induced Hypertension. 2008-2011 - \$353,090

**Vanderluit, J**

Canadian Stem Cell Network Transition grant. The Role of Mcl1 in Promoting Neural Precursor Cell Survival 2006-2008 - \$20,000/year.

CIHR/RPP. The Role of Cell Survival Genes in Promoting Neural Regeneration. Operating grant. 2007 - \$338,856 over 3 years.

CIHR/RPP. The Role of Cell Survival Genes in Promoting Neural Regeneration. New Investigator Award. 2007 - \$300,000 over 5 years.

Canadian Foundation for Innovation. The Role of Cell Survival Genes in Promoting Neural Regeneration. Leadership Opportunity Fund. 2008 - \$250,000.

Canadian Stem Cell Network. The therapeutic potential of Mcl-1 in promoting stem cell mediated neural regeneration. Coop Student Program, Acadia University Student - Ms. Ashley Sheen, 2 coop work terms. 2008-2009 - \$10,000.

## ***University and Community Service***

### ***University Service***

Faculty members from the Division of BioMedical Sciences had significant administrative duties in 2007-2008 in terms of membership on numerous Divisional, Faculty, and University committees.

### **Committees include**

'A-team', accreditation  
Academic (Professional) Development Coordinating Committee

Academic Council, School of Graduate Studies  
Admissions Committee, (Medicine)  
Admissions Interview Committee  
AF&G Committee, MUNFA  
Allocation of Canada Research Chairs Committee  
American Association for Cancer Research  
Animal Care Barrier Facility  
Animal Care Committee  
Animal Resources Committee advising the Vice-President of Research at MUN on matters related to AC Services  
Annual Gairdner Lecture  
Annual Scientific (Research) Days  
Bargaining unit promotions and tenure committee  
BioMedical Sciences Search Committee  
Board member, Genesis Group Inc.  
Board of Directors, Genome Atlantic  
Board of Health Research Ethics Authority (NL)  
Canada Millennium Scholarship Foundation  
Canadian Hypertension Society  
CIHR Peer Review Committees  
CIHR Regional Partnership Program Committee  
CIHR University Delegate  
inical Sciences Course  
Comprehensive Exam Committees (SGS)  
Curriculum Review team  
Dean's Advisory Committee on Graduate Studies  
Design and Governance Review Group  
Development Advisory Committee  
Executive Committee, Genome Atlantic  
Faculty Development Advisory Committee  
Faculty Development Committee  
Faculty of Medicine Space Committee  
Galbraith Lecture Selection Committee  
Graduate Awards Committee, Faculty of Medicine  
Graduate Studies & Research, Pharmacy  
Graduate Studies Committee, Faculty of Medicine  
Health Research Advocacy Sub-committee  
Health Sciences Centre Library Advisory Committee  
Heart and Stroke Foundation of Canada  
Human Ethics Accreditation Sub-committee  
Human Investigation Committee  
Informatics Sub-Committee  
Institutional animal care committee  
Medical Education Leadership Team (MELT)  
Medical Research Foundation Committee, Faculty of Medicine  
Medical Research Foundation Reviewing Committee, Faculty of Medicine  
Medical Research Foundation, Faculty of Medicine

Memorial University Recreational Complex  
MUNFA/MUN Joint Occupational Safety and Health Committee  
NL Clinical Research Centre Steering Committee  
NL Interdisciplinary Training Program in Human Genetics  
Pre-Clerkship and Clerkship Committees  
Pre-Clerkship Promotions and Clerkships Promotions Committee  
President's Committee on Animal Bioethics and Care  
Professional Development Council  
Promotions and tenure committee  
Provincial Advisory Committee on Human Health Research  
Provincial Health Research Ethics Authority, transition team  
Representative for Genome Atlantic on GE<sup>3</sup>LS-7  
Research Advisory Committee, (NLCAHR)  
Research and Development Committee, Faculty of Medicine  
Scientific Days Committee  
Senate  
Senate Committee on Research  
Senate Committee on Undergraduate Scholarships and Financial Aid  
Senior Management Committee  
Student Appeals Committee, Faculty of Medicine  
Student Assessment Sub-Committee, Faculty of Medicine  
Undergraduate Medical Education Committee (UGMS)  
Undergraduate Medical Studies Committee  
Undergraduate Medicine Student Appeals Committee  
Undergraduate Scholarships, Senate Committee member  
Undergraduate Subcommittee on Student Assessment  
University Orator  
Vice President's Research Council  
Wellness Committee  
Workplace Health and Safety Committee, Faculty of Medicine

Faculty also serve as members of committees or reviewers for NGO and Government funding agencies – Alzheimer's Society of Canada, Alzheimer's Association (US), CIHR (operating awards and salary awards), Genome Atlantic, Heart and Stroke Foundation, Multiple Sclerosis Society, National Cancer Institute, NCE Stroke Network, NSERC, NL Neurotrauma Initiative. In addition, many faculty serve as reviewers for scientific journals and several serve on journal editorial boards.

### **Community Service**

Board Cross Country Canada, National Cross Country Ski Association  
Brain Storm Competition for Brain Awareness Week  
Brain Storm Competition Judge  
Canadian Blood Services, Community Liaison Committee & Donor Advisory Panel  
Community Mediation Services  
Department of Health and Community Services  
Heart and Stroke Foundation of Newfoundland and Labrador  
HIV/AIDS expert interview for Gonzaga High School Biology student project

Mentor for Stem Cell Network Trainees  
Newfoundland and Labrador Research and Development Council Stakeholder  
Consultations  
Ovarian Cancer Fundraising Walk (Winner's Walk of Hope)  
Princeton Alumni Schools Committee  
Regional Science fair  
Scientific Evaluation Review Committee  
Sonofi Adventis Biotechnology Challenge Organizing Committee

Our faculty also contribute their time and expertise acting as members of local, provincial and national boards – Medical Research Foundation, the Newfoundland and Labrador Neurotrauma Initiative, the Genesis Group, the Heart and Stroke Foundation of Newfoundland and Labrador, Provincial Advisory Committee on Human Health Research, Canadian Coalition for High Blood Pressure Prevention and Control, Community Mediation Services, Memorial University Recreation Complex (MURC), Genesis, MUN Botanical Gardens.