Annual Report 2012

Compiled and edited by
Madonna Hawco and Karen Mearow/Gary Paterno

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Faculty of Medicine

Division of BioMedical Sciences

Annual Report

Calendar Year 2012

April 2013
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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 31 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 and Development**

**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 (NCTR) 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/Renal Physiology**

**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 and Infectious Diseases**

**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 6 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. 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

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

Harris, June A. (Memorial), professor of anatomy, Director of MedCAREERS

Hirasawa, Kensuke (Tokyo), assistant professor of immunology

Hirasawa, Michiru (Tokyo), associate professor of neurosciences

Kao, Ken (Toronto), professor of oncology

Larijani, Mani (Toronto), assistant professor of immunology and infectious diseases

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

McGuire, John (Queen’s), associate professor of cardiovascular sciences

McKay, Donald W. (Michigan State), professor of physiology, Associate Dean, Undergraduate Medical Education

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

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

Paterno, Gary (Ottawa), professor of oncology – no report received for Dr. Paterno

*Richardson, Vernon* (Sheffield), professor (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
Yuan, Qi (Memorial) assistant professor of neurosciences

* 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
*Christian, Sherri (UBC) assistant professor of biochemistry
*Harley, Caroline (Oregon), professor of physiology (neurosciences)
Hansen, Penny A (Memorial), professor of physiology
*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
Vasdev, Sudesh (Punjab), professor of medicine, director of renal laboratory
*Weber, John (Virginia), assistant professor of pharmacy
*Young, Terry-Lynn (Memorial), assistant professor of genetics

* Cross-appointed

**Adjunct Faculty**
Mandal, Sanat (Calcutta)
Corbett, Dale (Concordia), professor of physiology (neurosciences), Tier 1 Canada Research Chair in Stroke and Neuroplasticity
Moody-Corbett, Penny (McGill), professor of physiology (neurosciences)
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
Chen, Annie Yang
Cordova, Christopher
Hou, Quinlong
Jones, Daniel
Langdon, Kris
Mulrooney-Cousins, Patricia

Administrative and Secretarial Staff
Hawco, Madonna
Kelly, Sandra
Parrott, Deborah
Petten, Janice
Power, Caitlin

Research Support Staff
Abdouni, Hala
Alberto, Christian
Andrews, Philip
Arora, Simran
Chafe, Linda
Chia, Elizabeth
Churchill, Norma
Codner, Dianne
Conway, Meghan
Corkum, Christopher
Darby-King, Andrea
Davis, Anita
Ducey, Catherine
Dyer, Tracey
Fifield, Heather
Gallant, Maureen
Gardiner, Danielle
Garrett, Nicole
Granter-Button, Shirley
Mercer, Corinne
Miskiewicz, Ewa
Mulrooney-Cousins, Patricia
Nafar, Firoozeh
Pongnopparat, Theerawat
Quinlan, Matthew
Squires, Krista
Stapleton, Staci
Stuckless, Jennifer
Trelegan, Colleen
Wells, Christine
Xiong, Jieying
Yaskowiak, Edward
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 (BIOC 311A/B) – Human Physiology, Course Chairs, Dr. B. Stuyvers (Fall Semester) and Dr. Chris Cordova (Winter Semester)

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, coordinated 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 and Development, Cardiovascular/Renal Physiology, Immunology
and Infectious Diseases, and Neurosciences. The Program Coordinators and the courses offered through each program are noted below.

**Cancer and Development**  
**Coordinator – A. Dorward**  

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

**Cardiovascular/Renal Physiology**  
**Coordinator – J. Smeda; J McGuire (effective June)**  
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 and Infectious Diseases**  
**Coordinator – Dr. S. Drover**  
Participating Faculty – G. Carayanniotis, S. Drover, M. Grant, K. Hirasawa, M. Larijani, 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**  
**Coordinator – Dr. M. Hirasawa**  
Participating Faculty – X. Chen, M. Hirasawa, J. McLean, K. Mearow, J. Vanderluit, Q. Yuan
Courses
MED 6193 – Advanced Topics in neuroscience
MED 6196 – Systems neuroscience
MED 6197 – Cellular neuroscience

Post Graduate Education

Visiting Speakers

May 11, 2012
Neuroscience visiting speaker – Dr. Peter Brunjes, University of Virginia, presented “Adventures in the higher olfactory pathway” (hosted by Dr. John McLean)

June 8, 2012
Neuroscience visiting speaker - Dr. William F. Colmers, University of Alberta, presented "Neural mechanisms of energy homeostasis" (hosted by Dr. Michiru Hirasawa)

June 14, 2012
Immunology and Infectious Diseases visiting speaker - Dr. S.M. Mansour Haeryfar, University of Western Ontario, presented "Natural killer T (NKT) cell activation: means, modes and more" (Hosted by Dr. Mani Larijani)

June 15, 2012
Cancer and Development visiting speaker - Dr. Philippe Gros, McGill University, presented "Genetic control of susceptibility to colorectal cancer in mice" (graduate research symposium presentation)

June 15, 2012
Cancer and Development visiting speaker - Dr. Pamela Goodwin, University of Toronto, presented "Obesity, insulin resistance and breast cancer" (graduate research symposium presentation)

June 18, 2012
Division of BioMedical Sciences and Discipline of Medicine visiting speaker - Dr. Tony Lam, University of Toronto, presented "Nutrient sensing in the gut and its relevance to gastric bypass surgery" (hosted by Dr. Michiru Hirasawa and Dr. Guang Sun)

June 19, 2012
Immunology and Infectious visiting speaker - Dr. Alberto Martin, University of Toronto, presented "The gut microbiota and colon cancer" (hosted by Dr. Mani Larijani)
July 10, 2012
Cancer and Development visiting speaker - Mark Wilkes, Mayo Clinic, presented "Novel signalling molecules in TGF-beta mediated promotion of glioblastoma" (hosted by Dr. Jules Dore)

August 7, 2012
Cancer and Development visiting speaker - Dr. Janine Post, University of Twente, The Netherlands, presented “3D articular cartilage tissue engineering and novel strategies for the treatment of osteoarthritis” (hosted by Dr. Gary Paterno)

October 1, 2012
Neuroscience and Cancer and Development visiting speaker - Dr. Michel Cayouette, Institute de recherches cliniques de Montreal (IRCM), presented "Dare to be different: Regulating the production of terminal asymmetric cell divisions in the developing mouse retina" (hosted by Dr. Jacqueline Vanderluit)

October 22, 2012
Neuroscience visiting speaker - Dr. Vincent Tropepe, University of Toronto, presented "Retinal neurogenesis in zebrafish" (hosted by Dr. Jacqueline Vanderluit)

November 29, 2012
Immunology and Infectious Diseases visiting speaker - Dr. Luis Schang, University of Alberta, presented "Locking all the doors: innovative approaches to broad spectrum antivirals" (hosted by Dr. Kensuke Hirasawa)

**Graduate Students**

The following Students were 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 2012.

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<tr>
<th>Last Name</th>
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<th>Program</th>
<th>Supervisor</th>
<th>Co-Supervisor</th>
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**Undergraduate Students**

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Publications


Research Funding in the Division of BioMedical Sciences

Carayanniotis G
CIHR – Immunoregulation of experimental autoimmune thyroiditis. (operating; total $126,786; 2008-2013)

Chen X
NSERC – Contribution of L-type Ca2+ channel subtypes to burst firing of dopaminergic cells in the mouse tegmental area. (operating; total $114,574; 2013-2015)

Dorward A
Regional Partnership Program/CIHR and CIHR - Genetics and epigenetic determinants for juvenile-type granulosa cell tumourigenesis. (operating; total $359,542; 2012-2015)

Medical Research Foundation - Accelerating cancer gene discovery: Next generation sequencing technology applied to an ovarian tumour model. (operating; total $20,000; 2012-2015)

Government Contract awarded to co-applicant Dr. Edward Kendall - Carboxylase deficient mice. (operating; total $59,000; 2011-2015)

Drover S
Canadian Breast Cancer Foundation - Investigation of molecular mechanisms that regulate antigen presentation pathways in breast carcinoma. (operating; total $60,000; 2011-2012)

Gendron R, Paradis H
CIHR-Regional partnership - Role of tubedown in endothelial permeability in healthy vision. (operating; total $287,919; 2009-2012)

2008 CIHR (MOP-178356) - Tubedown in vision loss during aging and age-related retinopathies. (operating; total $505,880; 2008-2012)

Foundation Fighting Blindness-Canada - Tubedown signaling pathway regulating retinal endothelial permeability. (operating; total $210,000; 2012-2015)

CIHR - Tubedown signaling pathway as a therapeutic target for age-related retinopathies. (NL-RPP-operating; total $472,074; 2012-2015)

MRF Award - A novel electrochemically engineered collagen scaffold for tissue regeneration. (co-applicant Merschrod S EF, Poduska KM; award; total $20,000; 2012-2013)
Gendron R, Paradis H, MacPhee D, Doré J
2006 Canada Foundation for Innovation - Cellular signaling mechanisms in growth development and disease. (infrastructure operating award; total $150,000; 2006-2012)

Gillespie L, Paterno G
CIHR - Investigation into the role of MIER1α, a novel ER co-regulator. (operating; total $541,770; 2009-2014)

CBCF - Investigation of an alternatively spliced isoform of MIER1 alpha and its role in DCIS progression. (total $119,580; 2010-2012)

CIHR - MIER1α, a novel PPARγ co-regulator and its role in adipogenesis. (operating; total $278,436; 2010-2013)

Grant M
CIHR - The influence of killer cell immunoglobulin-like receptors and their ligands on HIV-specific CD8 T cell function. (operating; total $282,000; 2009-2011)

CIHR - Heteroclitic stimulation and CD5 modulation as strategies to expand human immunodeficiency virus-specific CD8⁺ T cell recognition breadth. (operating; total $304,000; 2011-2014)

CIHR - Cytomegalovirus, immunosenescence and immune risk profile in human immunodeficiency virus infection. ($100,000)

NLHARP - Cytomegalovirus immune risk phenotype and cognitive functioning in the oldest old. (operating; total $40,000; 2012-2014)

Hirasawa K
CIHR-Regional Partnership Program - Downregulation of IFN-inducible genes by Ras/Raf/MEK. (operating; total $242,456; 2010-2012)

CIHR-Regional Partnership Program - Mechanism of Ras-dependent oncolysis. (operating; total $334,658; 2012-2015)

NSERC - IRES-mediated translation during cellular stress. (discovery; total $150,000 2011-2016)

Canadian Breast Cancer Foundation - Restoration of antitumor function of IRF1 by Ras/MEK inhibition in breast cancer cells. (operating; total $150,000; 2012-2015)
**Hirasawa M**

CIHR - Central control of energy balance and food reinforcement. (operating; $540,073; 2007-2012)

CIHR - (co-investigator) Basal forebrain regulation of sleep-wake state. (operating; total $721,560; 2009-2014)

NSERC - Plasticity of spontaneous synaptic transmission in the hypothalamus. (discovery; total $320,000; 2011-2016)

**Kao KR**

CIHR – Pygopus and axis formation. (operating; total $462,140; 2009-2014)


RDC-IRIF – Role of Pygopus in prostate cancer. (match support; total $90,247; 2011-2013)

**Larijani M**

Terra Nova Young Innovator Award - Understanding the molecular pathways of antibody production by the Atlantic cod immune system. (operating; $50,000; 2012-2013)

President’s Award for Outstanding Research. (operating; $5,000; 2012-2013)

Canadian Foundation for AIDS Research - Evaluating the role of APOBEC3G in anti-HIV adaptive immunity: implications for the development of APOBEC-based therapies. (operating; $25,000; 2012-2013)

Canadian Foundation for Innovation Leaders Opportunity Fund - Mechanisms of genome mutators governing adaptive immunity and lymphomagenesis. (equipment; $191,000; 2012-2013)

CIHR - Mechanisms of genome mutators governing adaptive immunity and lymphomagenesis. (operating; total $575,000; 2010-2015)

CIHR New Investigator Award - Mechanisms of genome mutators governing innate and adaptive immunity. (salary; total $150,000; 2010-2015)
**McGuire J**
CIHR and Research & Development Corporation NL - Chronic and acute effects of PAR2 in endothelial dysfunction. (operating-RPP; total $295,000; 2012-2015)

**MacPhee D**
NSERC. (operating grant; total $160,000; 2007-2012)

CIHR / Regional Partnership. (total $357,000; 2010-2013)

**McKay D**
CIHR - MEthods of ASsessing blood pressUre: identifying thReshold and target valuEs (MeasureBP). (co-investigator with principal investigators: DASKALOPOULOU, Styliani et al at The Research Institute of the McGill University Health Centre; knowledge synthesis grant; total $99,872; 2012-2013)

**McLean J**
CIHR - A window on promoting memory. (operating; total 456,431; 2009-2013)

**Mearow K**
CIHR - Interaction of growth factor and integrin signalling pathways (operating; total $501,055; 2006-2012)

NSERC- Mechanisms of action of Hsp27 and stress activated signalling (operating; total $162,500; 2008-2013)

CIHR/RPP (RDC) - Protection of CNS neurons by heat shock proteins (operating; total $327,354; 2011-2014)

**Michalak T**
Novarits Institutes of Biomedical Research - Interferon responder test from circulating immune cells. (operating and equipment; total $984,380; 2010-2012)

PTC Therapeutics Inc - Testing PTC compounds against Hepatitis C virus in lymphoid cell culture model. (research contract; total $43,500; 2011-2012)

MedVir AB, Sweden - Pharmacokinetic evaluation of a proprietary nucleoside analogue in woodchucks. (research contract; total $18,000; 2011-2012)

CIHR-VVP Committee - Hepatitis C virus lymphotropism and persistence. (operating; total $635,575; 2005-2012)
CIHR-VVP Committee - Hepadnavirus pathogenicity in woodchuck model of Hepatitis B. (operating; total $812,265; 2009-2014)

MedVir AB, Sweden - Anti-hepadnaviral properties of a proprietary nucleoside analogue in woodchucks. (research contract; including in-kind contribution; total $251,910; 2012-2014)

Paradis H, Gendron R
CIHR - Tubedown in vision loss during aging and age-related neovascular retinopathies. (operating; total $505,880 2008-2012)

Richardson V
Wallace Ingram Award - Development of instructional learning units (ILU) to fill gaps in immunology knowledge identified in postgraduate medical trainee curricula. (award; total $16,000; 2010-2012)

Medical Research Foundation - In Vitro comparison of triptolide and JPK-101: A possible alternative to anti-cytokines for use in the treatment of rheumatoid arthritis and other inflammatory diseases. (operating; total $10,000; 2008-2012)

Russell R
CIHR - Viral determinants of infectious hepatitis C virus production. (includes $30,000/yr research funding in kind from Faculty of Medicine; total $510,000; 2009-2014)

RDC - Viral and cellular determinants of hepatitis C virus assembly. (operating; total $150,000; 2010-2015)

CIHR - HCV genetic variability and resistance to antiviral drugs. (co-applicant with Matthias Gotte at McGill; operating; total $136,666; 2011-2014)

Smeda J
CIHR/Regional Partnership - Cerebrovascular alterations associated with stroke development. (operating; total $352,000; 2011-2013)

Stuyvers B
NSERC - Research tools and instruments. Equipment for measurement of sarcomere dynamics (equipment; total $35,000; 2011-2012)

CIHR/RDC. - Origin of the arrhythmogenic calcium in cardiac Purkinje fibers after myocardial infraction. (operating; total $315,000; 2010-2013)
CFI – A high-performance live cell imaging setup to understand the development of lethal arrhythmias associated with heart attacks. (infrastructure operating; $16,000; 2009-2013)

**Vanderluit J**
CIHR/Regional Partnership - CIHR Neurosciences B RPP-NL. The role of cell survival genes in neurogenesis and neural regeneration. (operating; total $391,558; 2011-2013)

CIHR New Investigator Award - The role of cell survival genes in promoting neural regeneration. (operating; total $300,000; 2008-2012)

Canadian Foundation for Innovation : Leadership Opportunity Fund (equipment; total $250,000; 2008-2013)

**Van Vliet B**
CIHR – Effects of parental sodium intake on offspring. (operating; total $430,446; 2012-2015)

**Yuan Q**
CIHR – A beta-adrenoceptor mediated memory circuitry in neonatal rats. (operating; total $490,305; 2010-2015)

CIHR New Investigator award – A beta-adrenoceptor mediated memory circuitry in neonatal rats. (operating; total $300,000; 2010-2015)

**University and Community Service**

**University Service**
Faculty members from the Division of BioMedical Sciences had significant administrative duties in 2012 in terms of membership on numerous Divisional, Faculty, and University committees.

**Committees include**

- Academic Council, Nominating Committee (SGS)
- Academic Council, School of Graduate Studies
- Academic Program Review Graduate Studies in Medicine Committee
- Accreditation, Steering Committee (Medicine)
- Advisory Committee to the Associate Dean of BioMedical Sciences
- Advisory Committee, Regional Partnership Program, CIHR
- Anatomy Subcommittee
- Anatomy Subject Committee
- Animal Care Committee
Animal Care Planning Committee for New Facility
Biosafety Management Committee
BMS Website Coordinator
BMS-II Phase Development Expert Working Group
BSM-I Phase Development Experts Working Group
Cancer and Development Graduate Research Symposium Organizer
Cancer and Development program, Graduate Coordinator
Cardiovascular Group Faculty Search Committee
CREAIT Network, Review Committee
Expert Committee for New Curriculum (Medicine)
Galbraith Lecture Selection Panel MUN
Graduate Studies & Research (Pharmacy)
Graduate Studies Awards Committee
Graduate Studies Committee
Graduate Studies Committee, Medicine
Health Sciences Library Committee
Immunology and Infectious Diseases Summer Retreat
Institutional Animal Care Committee
Institutional Review Committee of MD Program (Self-Study)
Internal Medicine Research Committee
LCME, Institutional Self-Study Subcommittee Working Group on Admissions
Medical Admissions Committee
Medical Education Scholarship Council
Medical Research Endowment Fund Board
Medical Research Foundation
Medical Research Foundation
Medical Research Foundation Grants Review Committee
Medical Research Foundation Grants Reviewing Committee
Medical School Accreditation Subcommittees, Self-Study Working Group-Academic Environment
Medical School Admissions Committee
Medical School Admissions Interview Panel
Medical School Interview Sub-Committee
Memorial University Heads Council (for Department Chairs and Divisional Heads; Executive Member)
MRF Committee
MUN Research Council
MUNFA Academic Freedom and Grievance Committee
MUNFA Executive Committee
MUNFA Joint Association/University Relations Committee
MUNFA Nominating and Balloting Committee
MUNFA Pension Committee
MUNFA Proposals Committee
MUNFA Scholarship Committee
MUNFA Vice-President
Neuroscience Graduate Program Course Coordinator
New Curriculum Development Committee (Phase 1 and 2 Development Group)
Pre-accreditation Committee on Curriculum Oversight
Pre-accreditation Self-study, Educational Objectives Working Group
Program Evaluation Sub-Committee (Medicine)
Promotion and Tenure Committee
Research and Graduate Studies Academic Program Review Committee-BMS Programs
Research and Graduate Studies Sub-Committee for Funding Priorities
Review Committee, Assistant Dean for Admissions (Medicine)
Search Committee, Chair, Discipline of Genetics
Search Committee, Assistant Dean, Research and Graduate Studies (Medicine)
Search Committee, Associate Dean, Research and Graduate Studies (Medicine)
Search Committee, Cardiovascular Scientist Faculty Member
Search Committee, CRC in Brain Repair/Stroke Recovery
Search Committee, CRC in Neuroplasticity
Search Committee, Neuroscience Canada Research Chair
Search Committee, Tier 2 CRC in Physical Medicine and Neurological Rehabilitation
Senate Committee on Research (SCOR)
Senator, Faculty of Medicine Representative
Senator, Memorial University
Senior Management Committee (Medicine)
Space Committee (Medicine)
SPOR Working Committee (Medicine)
Student Assessment Subcommittee (Medicine)
Student Wellness Committee
Undergraduate Medical Education Program, Self-Study Working Group
Undergraduate Medical Studies Committee
University Orator
University Radiation Safety Committee
University Safety Committee MUN

Community Service

Canadian Liver Foundation
Cardiovascular Awareness and Research Education Day
Facebook Page (Russell Lab)
First Responder/Advanced First Aid, CPR, AED, oxygen administration
Health Sciences Research Showcase for Heart and Stroke Foundation of NL Board
Heart & Stroke Foundation of Newfoundland and Labrador, Canvassing Volunteer
Heart and Stroke Foundation Council on Mission: Priorities, Advice, Science, and Policy
MedCAREERS across Canada
Media Relations, NTV live interview and VOCM interview for prostate cancer
Medical Students Research Forum
Newfoundland BrainStorm Competition
Ovarian Cancer Canada, The Walk of Hope
Ride for Sight, Foundation Fighting Blindness Canada
Sanofi-Aventis BioTalent Challenge Program for Young Adults
St. John’s Bilingual Postsecondary and Career Fair
Stem Cell Network Trainees
The Works, Fitness Instructor
Thrombosis, Blood and Immune Disorders Education and Research Project
Torbay Volunteer Fire Department
WISE (Women in Science and Engineering)
Workshop for Discovery Day in Health Sciences CMHR
Workshop for Shad Valley Program
Workshop for Ski Patrollers