

CANADIAN SOCIETY
FOR LIFE SCIENCE
RESEARCH



SOCIÉTÉ CANADIENNE
DE RECHERCHE DES
SCIENCES DE LA VIE

Second Annual Conference
McGill University, Montréal,
Québec
July 13th-14th, 2007

Welcome from the President:

I am honoured to welcome students and faculty from across the country to the 2nd annual conference of the Canadian Society for Life Science Research (CSLSR)/Société Canadienne de Recherche des Sciences de la Vie (SCRSV). We are privileged to have you in attendance to exemplify the great work carried on by life scientists in this country. The establishment of such an organization has been a dream of mine since I first began conducting research during my undergraduate studies and learned about research organizations that were specialized to one area and catered mostly to the scientist. Recognizing few opportunities for students to share their research with other scientists, combined with an increasing student interest in a wide array of research topics, prompted me to establish a non-profit national organization, the CSLSR. Our goal is to bring together student researchers at the undergraduate, graduate, professional and post-graduate levels to share their knowledge with other future academics and clinician-scientists in the hope of ultimately translating this great work from bench to bedside.

In a short time, the CSLSR has grown in both student membership and faculty involvement, and we have continued to expand the opportunities for student members of the CSLSR. Our student representatives at each university facilitate the networks amongst our members and expand the CSLSR to faculty and students at various institutions. We are also proud of our affiliations with other non-profit organizations and university clubs with similar values, including the Society of Graduate and Professional Students (SGPS), Queen's National Undergraduate Conference on Medicine (QNUCM), and the National Health Sciences Students Association (NaHSSA). I am also pleased to announce our affiliation with the McGill Journal of Medicine for the publication of this year's conference abstracts. The CSLSR gratefully acknowledges the support of the Canadian Institutes of Health Research (CIHR)'s Institute of Infection and Immunity and Merck-Frosst for their support of this year's conference. I would also like to thank McGill University for their support in our hosting of this year's conference at their institution. I would like to personally thank our McGill representative, Jenna Fong, and our submissions editors, Niousha Foad Ghazni and Trina Hancock, for their great work in anticipation of this year's conference; our secretary/treasurer, Gwen MacDonald, for the tremendous amount of time she has committed to the CSLSR in its first two years, and finally, the sponsors of our 1st annual golf tournament, which was a great success, for their support of CSLSR's mission. As we hold our annual meeting of the Board of Directors during the conference, I encourage our attendees to play an active role in the growth of the CSLSR, either as student representatives at their university or as part of our committees in the upcoming year.

I encourage you to attend all sessions from our keynote speakers, who are renowned experts in their fields, which are designed to benefit you as scientists in academia or in industry. Most importantly, enjoy yourselves, make new friends, meet new mentors and keep up the great work that you have committed yourselves to. I hope to see everyone at the Delta Montreal for cocktails (July 12th at 6pm).

Thank-you for your support of young researchers at McGill and across Canada!

Philippe Rizek
President
Canadian Society for Life Science Research

Conference Schedule on Inside Back Cover

www.cslsr.ca

Keynote Speakers

Dr. Rolando Del Maestro, Director of the McGill Brain Tumour Research Centre



Rolando Del Maestro, M.D., Ph.D., F.R.C.S. (C) F.A.C.S., holds the William Feindel Chair in Neuro-Oncology at McGill University. In 2004, he became Director of the MNI's Brain Tumour Research Centre (BTRC), where he had served as Clinical Director since 2000. He received his medical degree (cum laude) from the University of Western Ontario, and his doctoral degree (PhD) in pathological medicine from the University of Uppsala, Sweden. A distinguished neurosurgeon, Dr. Del Maestro also devotes time to research into brain tumours, especially malignant gliomas. In July, 2005, he was asked by the U.S. National Institute of Health to participate in a grant review panel on glioma invasion. Dr. Del Maestro is a member of many professional organizations and serves on the Board of Directors of the Canadian Brain Tumour Consortium, the National Cancer Institute of Canada, and the Brain Tumour Foundation of Canada. He is a Scientific Advisor for the Brain Tumour Foundation of Canada, the North American Brain Tumor Coalition, and Schering Canada. The Brain Tumour Foundation of Canada awarded scientific grants during 2005-2006 and 2006-2007 to continue his work on brain tumour biology. During 2004-2006, he was the Principal Investigator in a clinical trial with the pharmaceutical company Neopharm. He also initiated and developed a Phase 1 Brain Tumour Clinical Trial to assess the role of pre-operative chemotherapy with Temozolomide in brain tumour patients which has been supported by Schering Canada. He has published over one hundred scientific papers, including three in 2005, and six in 2006 and a number are currently under review for publication. He was visiting professor at McMaster University in 2005 where he delivered the 5th Annual Schatz Lecture. During 2005 and 2006, he was invited to give 16 lectures both nationally and internationally including Mexico, Vienna, Portugal, Japan, Spain, China and multiple US sites. As a Curator for the Osler Library, he designed and organized a History of Neuro-Oncology Exhibition at the Osler Library, McGill University and published a catalogue which has been distributed world wide. This was done in co-ordination with the Canadian Congress of Neurological Sciences meeting in Montreal in 2006. Dr. Del Maestro continues his interest in the life and works of Leonardo da Vinci adding both to his extensive personal library as well as sharing his knowledge with others through frequent invited lectures.

Talk: *Advances in the Treatment of Malignant Glial Tumours & Leonardo da Vinci and the Search for the Soul*

Dr. Mark Wainberg, Director, McGill AIDS Centre



Dr. Mark A. Wainberg is Director of Research at the Jewish General Hospital as well as Professor of Medicine and Microbiology and Immunology at the University of McGill in Montreal, Canada. Dr. Wainberg is an internationally recognized scientist in the field of HIV/AIDS. He served as President of the International AIDS Society between 1998-2000 with responsibilities that included organization of the XIIIth International Congress on AIDS in Durban, South Africa, 2000. Dr. Wainberg is proud of the role that he played in the choice of South Africa as a venue for this congress, which had an important impact on the issue of access to anti-HIV drugs in developing countries.

He is well-known for his initial identification of 3TC as an anti-viral drug, in collaboration with BioChem Pharma Inc, in 1989, as well as for multiple contributions to the field of HIV drug resistance. His laboratory continues to work in the field of drug development, and, as well, Dr. Wainberg has now turned his attention to novel concepts in prevention of HIV infection in developing countries, such as vaginal microbicides and pre-exposure prophylaxis. He was co-Chair of the XVIth International AIDS Conference that took place in Toronto between August 13-18, 2006. Dr. Wainberg is also a member of numerous international advisory committees in the field of AIDS and is Chair of the Scientific Council of the ANRS (Agence Nationale de Recherche sur le SIDA) (National Agency for AIDS research of France). Dr. Wainberg is a fellow of the Royal Society of Canada and an Officer of the Order of Canada. He is also an officer of the Ordre National du Québec and an honorary fellow of the Royal College of Physicians and Surgeons of Canada.

Talk: *The Problem of Drug Resistance in the Treatment of HIV Disease*

Dr. Suzanne Fortier, President, Natural Sciences and Engineering Research Council (NSERC)



Dr. Suzanne Fortier has served as President of the Natural Sciences and Engineering Research Council of Canada (NSERC) since January 2006.

Before her appointment to this position, Dr. Fortier was a member of Queen's University as Professor in both the Department of Chemistry and the School of Computing. She also served as Vice-Principal (Research) from 1995 to 2000 and Vice-Principal (Academic) from 2000 to 2005.

Dr. Fortier is a crystallographer by training, specializing in the development of mathematical and artificial intelligence methodologies for protein structure determination.

Talk: *Building a Country of Discoverers and Innovators*

Keynote Speakers

Dr. Igor Stagljar, Associate Professor, University of Toronto



Igor Stagljar was born in Zagreb, Croatia, where he spent the first 22 years of his life. Igor received his B.Sc. in Molecular Biology from the University of Zagreb in 1990, and his Ph.D. in Molecular Biology & Microbiology, from the Swiss Federal School of Technology (ETH) in Zurich, Switzerland, in 1994. Afterwards he undertook two post-doctoral positions both at the University of Zurich, first working on RNA polymerase II transcription in mammals, and second on various aspects of DNA replication and repair in yeast.

From 1999 to 2002, Dr. Stagljar was a Junior Group Leader, and from 2002 to 2005 Assistant Professor at the University of Zurich. In 2001, he was a Visiting Scientist at the University of Washington, Seattle, USA, where he spent 6 months working in the lab of Prof. Stan Fields, the inventor of the yeast two-hybrid technology. Since summer of 2005, Igor has been an Associate Professor at the Department of Biochemistry and Medical Genetics, University of Toronto. His labs are located in the Donnelly Center for Cellular and Biomolecular Research (CCBR), a new and cutting-edge, interdisciplinary research centre in the heart of Toronto's research district.

In the newest issue of Molecular Cell, the Stagljar lab developed a unique assay called integrated membrane yeast-two hybrid (iMYTH) that identifies protein-interactors of transmembrane proteins such as the ABC transporters. Their findings suggest that iMYTH is a cutting-edge technology for identifying protein-interactors of a large variety of transmembrane proteins and that it has great pharmacological and clinical value.

Talk: *Charting membrane protein interactions: from yeast to humans*

Dr. Michael Stern, Officer of the Life Sciences sector of the [McGill Office of Technology Transfer](#).



Dr. Michael Stern obtained his Ph.D. from McGill University (Biochemistry) and then launched a career in pharmaceutical research spanning 25 years that brought him to several companies including Ayerst Laboratories (Wyeth), BioChem Pharma, and Marion Merrell Dow (Aventis). His research interests have been in the fields of endocrinology, CNS and pharmacokinetics. His experience in the pharmaceutical field covers most of the different stages of R&D including drug discovery, drug development, regulatory affairs and clinical research. Since 1999, he has been an officer at the McGill Office of Technology Transfer (OTT), where he specializes in the evaluation, patenting and licensing of various technologies (especially in the CNS field), preparation of Proof of Principle grant applications, as well as in the negotiation of research contracts including clinical trial agreements. Because of his extensive experience in pharmaceutical research combined with his present career in the tech transfer arena, he is in an ideal position to comment on rapidly evolving developments in the area of commercialization of life science technologies.

Talk: *Recent Developments in the Commercialization of Life Science Technologies*

Dr. Michael Beyak, B.Sc. (Queen's), M.D. (Toronto)



Gastrointestinal Disease Research Unit (GDIRU), Queen's University
Dept. of Medicine; Cross Appointment: Dept. of Physiology

Michael Beyak studied Life Sciences at Queen's University, where he had his first taste of biomedical research. He then went on to study medicine at the University of Toronto, where he completed residencies in Internal Medicine and Gastroenterology, and served as Chief Resident in both of these disciplines. He then undertook post doctoral research training, in the lab of Dr. Stephen Vanner in GDIRU at Queen's, examining inflammation induced ion channel changes in changes in gastrointestinal nociceptive afferent nerves. They found that inflammation caused an increase in voltage gated sodium currents, while suppressing potassium currents, leading to increased excitability. He then went on to further research training at the University of Sheffield in the UK, with Prof's David Grundy and Annemarie Surprenant, examining ion channels involved in chemo and mechanosensitivity in GI vagal afferents. He was recruited back to Queen's and is now an Assistant Professor in the Departments of Medicine and Physiology and is a clinician scientist member of GDIRU, the largest and fastest growing GI research group of its kind in Canada. He has been awarded the AGA (American Gastroenterological Association) Ortho / PriCara Master's Award for Excellence in Basic or Clinical Research in Digestive Diseases, and recently has been awarded a 2007 AGA Research Scholar Award.

His newly established research program is currently applying whole cell patch clamp recording techniques as well as extracellular afferent nerve recording to the study of meal related signaling in GI vagal afferent nerves. As overeating and obesity have reached epidemic levels in the industrialized world, questions regarding the regulation of food intake are particularly topical and have great relevance to human health. With this in mind his main aims are to: 1. Examine the basic cellular mechanisms which food intake is sensed by vagal sensory nerves. 2. Examine how these mechanisms are perturbed in models of overeating / obesity and in undereating such as seen in inflammatory bowel disease.

Talk: *Ionic mechanisms of the action of satiety hormones on gastrointestinal vagal afferents*

Poster Sessions:

1. The soldier and the animal: Metaphor in maintenance of antiretroviral adherence in Ghana's eastern region
Matthew J. Akiyama, David Napier
University College London, London, England
2. Activation of global DNA demethylation by MBD2 converts non-transformed cells into highly invasive and metastatic cancer cells; MBD2 mediates Ras transforming activity**
S.D. Andrews^{1,2}, B. Ateeq², J. Torrisani^{1,2}, A.C. D'Allesio^{1,2}, A. Unterberger^{1,2}, J-N. Ou^{1,2}, A. McKinney^{1,2}, S. Rabbani², M. Szyf^{1,2}
¹Department of Pharmacology and Therapeutics, ²Faculty of Medicine, McGill University
3. Regulation of the breast cancer susceptibility gene 1 (BRCA1) by the stress hormone hydrocortisone**
Lilia Antonova, Christopher R. Mueller
Cancer Research Institute, Queen's University
4. A novel pathway of cadherin, Rac1/Cdc42 and Stat3 interaction
Rozanne Arulanandam¹, Jun Cao¹, Adina Vultur¹, Jonathan Degeer¹, Lionel Larue², H  l  ne Feracci³, Leda Raptis¹
¹Department of Pathology, Queen's University; ²Institut Curie, Paris, France; ³Centre de Recherche Paul Pascal, Bordeaux, France
5. Characterizing the functional domains of baculovirus late expression factor 3 (LEF-3)
Victoria Au, Eric Carstens
Department of Microbiology and Immunology, Queen's University
6. Heats shock cognate protein 70 accumulates in the nucleolus of HeLa cells during heat stress recovery
Piotr Banski, Mohamed Kodiha, Ursula Stochaj
Department of Physiology, McGill University
7. Ameliorating benefit assessment procedures for genetically modified organisms
Jason Behrmann, Bryn Williams-Jones
Groupe de recherche en bio  thique & D  partement de m  decine sociale et pr  ventive, Facult   de m  decine, Universit   de Montr  al
8. In Vivo goblet cell responses to an enteric bacterial pathogen in a mouse model of infectious colitis
Kirk S. B. Bergstrom¹, Mohammad Rumi¹, Waliul Khan², Caixia Ma¹, Deanna Gibson¹, Mohammed A. Khan¹, Anna Velcich³, and Bruce A. Vallance¹
¹Division of Gastroenterology, B.C. Children's Hospital; ²Department of Medicine, McMaster University; ³Department of Biochemistry, NYC Medical Center
9. Towards high resolution mapping of DNA regions susceptible to genetic instability during spermiogenesis
G. Bikond Nkoma, F. Leduc, G. Boissonneault
D  partement de Biochimie, Facult   de M  decine et de la Sant  , Universit   de Sherbrooke
10. Dynamic ergosterol- and ceramide-rich domains in the peroxisomal membrane serve as an organizing platform for peroxisome fusion
T. Boukh-Viner, P. Kyryakov, C. Gregg, T. Guo, A. Goldberg, S. Bourque, S. Chowdhury, F. Banu, K. Hung Yeung San, N. Ramlal, C. Sison, J. Solomon, V. Wong, V.I. Titorenko
Department of Biology, Concordia University
11. Lipid metabolism in peroxisomes, endoplasmic reticulum and lipid bodies controls chronological aging in yeast**
S. Bourque, A. Goldberg, T. Boukh-Viner, C. Gregg, P. Kyryakov, S. Chowdhury, V.I. Titorenko
Department of Biology, Concordia University
12. Analysis of DAF-18/PTEN in VAB-1 Eph RTK signaling
Sarah E. Brisbin, Ian D. Chin-Sang
Department of Biology, Queen's University
13. Complementary role for TC-PTP and PTP-1B in interferon-gamma signaling
Annie Bourdeau¹, Krista M. Heinonen^{1,2}, Karen M. Doody^{1,3}, Emily K. Higgins¹, Ailsa Lee-Loy¹, Michel L. Tremblay^{1,3}
¹McGill Cancer Centre; ²Division of Experimental Medicine, McGill University; ³Department of Biochemistry, McGill University
14. Protective secondary immune response to gram-negative bacteria : a role for TLRs?
Nellie Dumont, Dominic Paquin Proulx,   ric Aubin, R  al Lemieux, Ren  e Bazin
D  partement de la recherche et d  veloppement, H  ma-Qu  bec and D  partement de biochimie et de microbiologie, Universit   Laval
15. Breast cancer cells inhibit osteoblast differentiation
Jenna E. Fong¹, D. Le Nihouannen¹, O. Hussein¹, P.M. Siegel^{2,3,4}, S.V. Komarova^{1,2,4}
¹Faculty of Dentistry, ²Departments of Medicine, ³Biochemistry and ⁴Anatomy and Cell Biology, McGill University
16. Effect of sensori-motor interventions on the oral feeding performance of preterm infants
S Fucile^{1,2}, E Gisel¹, C Lau²
¹McGill University; ²Baylor College of Medicine, Houston, Texas
17. Management of painful Indiana pouch contractions and incontinence with intrapouch injections of botulinum toxin type A
Arash Gharajeh, D. Robert Siemens
Queen's University

** Denotes an oral presentation

Poster Sessions:

18. Molecular systems biology of aging: using calorie-restricted yeast as a model system for defining a modular network controlling chronological aging
A. Goldberg, C. Gregg, T. Boukh-Viner, S. Bourque, P. Kyryakov, T. Guo, S. Chowdhury, Z. Aziz, D. Cyr, V.I. Titorenko
Department of Biology, Concordia University
19. Influence of oral and subcutaneous bisphenol-A on intrauterine implantation of fertilized ova in inseminated female mice**
Robert G. Berger¹, Trina Hancock², Denys deCatanzaro¹
¹Department of Psychology, Neuroscience and Behaviour, McMaster University; ²Department of Biology, Queen's University, Kingston, Ontario
20. Epistasis between mouse *Ly49* and MHC class I loci is associated with a novel mechanism of NK cell mediated innate resistance to cytomegalovirus infection
Agnieszka Kielczewska^{1,2}, Marie-Pierre Desrosiers^{1,2}, J-C Loredano-Osti^{1,2}, Sonia Girard Adam^{1,2}, Melissa B. Lodoen³, Kenneth Morgan^{1,2,4}, Lewis L. Lanier³, Silvia M. Vidal^{1,2,5}
¹Department of Human Genetics, McGill University; ²McGill Centre for the Study of Host Resistance; ³Department of Microbiology and Immunology, the Biomedical Sciences Graduate Program, and the Cancer Research Institute, University of California San Francisco; ⁴Department of Medicine, McGill University; ⁵Department of Microbiology and Immunology, McGill University
21. Inhibition of hsc70s shuttling upon stress, import, export, and beyond?
Mohamed Kодиha, Piotr Banski, Ursula Stochaj
Physiology Department, McGill University
22. The role of Caspase-12 in host response to malaria
Katherine Labbé¹, Maya Saleh^{1,2}
¹Department of Microbiology and Immunology, McGill University; ²Department of Medicine, Critical Care Division, McGill University
23. Androgen regulation of apoptosis and survival in the epididymis
Sophie-Anne Lamour, Bernard Robaire
McGill University
24. Regulation of synaptic GABA-A receptors by phosphatase PTEN
Lijun Li, Baosong Liu, Qi Wan
Department of Fundamental Neurobiology, Toronto Western Research Institute; Department of Physiology, University of Toronto
25. Murine model for implant osseointegration
Letitia Z. Lim¹, S. A. Hacking², A. Li¹, H. Wang¹, E. J. Harvey², J. E. Henderson¹
¹Department of Medicine; ²Department of Surgery, Faculty of Medicine, McGill University
26. Optimizing the design principles of chitosan nanoparticles as an efficient gene delivery system
Meenakshi Malhotra, Safaa Sebak, Maryam Mirzaei, Arun Kulamarva, Jasmine Bathena, Satya Prakash
Biomedical Technology and Cell Therapy Research Laboratory, Department of Biomedical Engineering, McGill University
27. Characterization of CD11d leukocyte integrin surface expression
W. M. McKillop, G. A. Dekaban
Robarts Research Institute, Department of Microbiology and Immunology, University of Western Ontario
28. A key role for phosphoinositide 3-kinase in the regulation of LPS- and TNF- α -induced CD44 expression in human monocytic cells
Jyoti P. Mishra, Sasmita Mishra, Ashok Kumar
Department of Biochemistry, Microbiology and Immunology, Faculty of Medicine, University of Ottawa
29. Expression, subunit structure and regulation of NADPH oxidase in skeletal muscles
M. Mofarrah, D. Mayaki, B. Petrof, M.T. Quinn, F. Maltais, S.N. Hussain
McGill University; Montana State University, Bozeman, Montana; Laval University
30. Regulation of skeletal muscle satellite cell proliferation and apoptosis by NADPH oxidase
M. Mofarrah, L.S. Terada, S.N. Hussain
McGill University; University of Texas Southwestern Medical Center
31. Probing into the GTP specificity of an mRNA capping enzyme
Issur Moheshwarnath, Martin Bisailon
Département de biochimie, Université de Sherbrooke
32. Biological activity of cross-linked intravenous immunoglobulins (IVIg) on human B cells**
Dominic Paquin Proulx, Réal Lemieux, Renée Bazin
Department of Research and Development, Héma-Québec; Department of Biochemistry and Microbiology, Laval University
33. Interleukin 33 (IL-33) in severe asthma and modulation of its expression in airway smooth muscle cell (ASMC)
D. Prefontaine¹, S. Lajoie-Kadoch¹, A.K. Mogas¹, S. Foley¹, R. Olivenstein², A.J. Halayko³, P. Ernst⁴, C. Lemière⁵, J.G. Martin¹, Q. Hamid¹
¹Meakins-Christie Laboratories, McGill University; ²Montreal Chest Research Institute, McGill University; ³University of Manitoba; ⁴McGill University; ⁵Sacré-Coeur Hospital, University of Montréal
34. Epigenetic differences in human aggressive behavior
Nadine Provençal¹, Richard E. Tremblay², Moshe Szyf¹
¹Department of Pharmacology and Therapeutics McGill University; ²GRIP, University of Montréal

Poster Sessions:

35. Immunogenetics of infection: MHC class I molecules and NK cell receptors interplay in the recognition of MCMV

Michal Pyzik, Agnieszka Kielczewska, Nassima Fodil-Cornu¹, Silvia M. Vidal
Department of Immunology, McGill University

36. A pediatric genome-wide association study identifies two novel Type 1 diabetes loci**

Hakon Hakonarson^{2,3}, Struan F.A. Grant^{2,3}, Jonathan P. Bradfield², Luc Marchand¹, Cecilia E. Kim², Joseph T. Glessner², Rosemarie Grabs¹, Tracy Casalunovo², Shayne P. Taback⁴, Edward C. Frackelton², Margaret L. Lawson⁵, Luke J. Robinson², Mario Capasso³, Robert Skraban², Yang Lu¹, Rosetta M. Chivacci², Charles A. Stanley⁶, Susan E. Kirsch⁷, Dimitri S. Monos^{8,9}, Marcella Devoto^{3,10}, Hui-Qi Qu¹, Constantin Polychronakos¹

¹Department of Pediatrics and Human Genetics, McGill University; ²Center for Applied Genomics, Abramson Research Center, The Children's Hospital of Philadelphia; ³Department of Pediatrics and Division of Human Genetics, The Children's Hospital of Philadelphia; ⁴Department of Pediatrics and Child Health, University of Manitoba; ⁵Division of Endocrinology, Children's Hospital of Eastern Ontario, University of Ottawa; ⁶Division of Endocrinology, The Children's Hospital of Philadelphia; ⁷Markham-Stouffville Hospital; ⁸Department of Pediatrics University of Pennsylvania, School of Medicine; ⁹Department of Pathology and Laboratory Medicine, Abramson Research Center, The Children's Hospital of Philadelphia; ¹⁰CCEB, University of Pennsylvania

37. Idiopathic toe walking: A marker for developmental delay

M. Radina, M.J. Penner, R.G. Smith, D. Samdup
Faculty of Health Sciences, Queen's University

38. Apoptosis in epithelial fetal lung cells exposed to stretching as a result of positive ventilation

Nathalie Richard, Irene Tseu, Martin Post
Department of Lung Biology, The Hospital for Sick Children, Toronto, Ontario

39. Preparation and characterization of human serum albumin nanoparticles for drug delivery applications**

Safaa Sebak, Maryam Mirzaei, Meenakshi Malhotra, Arun Kulamarva, Satya Prakash
Biomedical Technology and Cell Therapy Research Laboratory, Department of Biomedical Engineering, Faculty of Medicine, McGill University

40. Caspase substrates screening by diagonal gel approach and study on caspase-1 substrates on glycolytic pathway

W. Shao¹, M. Saleh^{1,2}
¹Department of Biochemistry, McGill University; ²Department of Microbiology & Immunology, McGill University; Critical Care Division, Royal Victoria Hospital

41. Megakaryocytic cells expressing a peptide derived from a protein regulating the actin cytoskeleton, MTPG-24, exhibit an increased cell size**

A. Ste-Marie^{1,2}, C. Simard¹, S. Côté^{1,2}
¹Héma-Québec; ²Département de Biochimie et Microbiologie, Université Laval

42. The development of EGFR-based glioblastoma targeting moieties

Ulrike Trojahn¹, Jason Baardsnes², Maria Jaramillo², Andrea Bell³, Jianbing Zhang³, Umar Iqbal³, Abdelnasser Abulrob³, Danica Stanimirovic³, Roger MacKenzie³, Boguslaw Tomanek⁴, Maureen O'Connor-McCourt^{1,2}
¹Department of Biochemistry, McGill University; ²Biotechnology Research Institute, National Research Council; ³Institute for Biological Sciences, Ottawa; ⁴Department of Neurological Sciences, University of Calgary

43. ADAM12 effects on Dupuytren's disease cell morphology and cytoplasmic beta catenin accumulation require Type I IGF receptor tyrosine kinase activity**

Linda Vi^{1,2,7}, Bing Siang Gan^{1,2,3,4,5,7}, David O'Gorman^{1,2,3,6,7}
¹Cell & Molecular Biology Laboratory, Hand & Upper Limb Centre, St. Joseph's Health Care; ²Lawson Health Research Institute; ³Departments of Surgery, ⁴Physiology and Pharmacology, ⁵Medical Biophysics, ⁶Biochemistry, University of Western Ontario

44. Co-chaperone FKBP38 promotes HERG trafficking

Valerie Walker, Roxana Atanasiu, and Alvin Shrier
Department of Physiology, McGill University

45. Mouse genetic model of cardiovirulent Coxsackievirus B3 infection

Sean A. Wiltshire^{1,3}, Han Yao^{2,3}, Emeric Bojarski^{2,3}, Danica Albert³, Silvia M. Vidal^{1,2,3}
¹Department of Human Genetics, McGill University; ²Department of Microbiology and Immunology, McGill University; ³McGill Centre for the Study of Host Resistance, McGill University

MINISYMPOSIUM: Protein trafficking and intracellular signaling (prepared by Dr. Ursula Stochaj, Department of Physiology, McGill University)

46. Nuclear transport of heat shock proteins: Import, export and beyond
M. Kодиha, P. Banski, U. Stochaj; Department of Physiology, McGill University

47. An intraperoxisomal signaling cascade initiates peroxisome division by triggering the stepwise remodeling of lipid composition of the peroxisomal membrane
C. Gregg, T. Boukh-Viner, T. Guo, A. Goldberg, S. Bourque, P. Kyrakov, S. Chowdhury, F. Banu, K. Hung Yeung San, S. Milijevic, N. Ramlal, C. Sison, J. Solomon, V. Wong, V.I. Titorenko; Department of Biology, Concordia University

48. Mitochondrial targeting and folding functions of chaperones
M. K. Bhangoo, A.C. Y. Fan, S. Tzankov, J.C. Young; Department of Biochemistry, McGill University

49. Test of the vesicular transport hypothesis for golgi traffic by proteomics
C. Au, J. Bergeron; Department of Anatomy and Cell Biology, McGill University

Conference Schedule:

Day 1

8:00 am - 8:45 am	Registration, Poster Set-up, Continental Breakfast
8:45 am - 9:00 am	Introductory Remarks
9:00 am - 9:50 am	Dr. Susanne Fortler
10:00 am - 10:50 am	Dr. Roberto Del Maestro
11:00 am - 11:50 am	Dr. Mark Wahberg
12:00 pm - 1:00 pm	Lunch (provided)
1:00 pm - 1:50 pm	Dr. Igor Stegljär
2:00 pm - 2:50 pm	Dr. Michael Bayuk
3:00 pm - 3:50 pm	Dr. Michael Stern
3:50 pm - 4:30 pm	Round Table Discussion
4:30 pm - 6:00 pm	Student Poster Session
Concurrent sessions	CSLR BOD Meeting
6:00 pm - 8:00 pm	Cocktail Event at Delta Hotel

Day 2

8:00 am - 8:45 am	Continental Breakfast
8:45 am - 9:00 am	Introductory Remarks
9:00 am - 9:50 am	Dr. Roberto Del Maestro (second talk)
10:00 am - 10:15 am	Lilia Antonova
10:15 am - 10:30 am	Alexandre Ste-Marie
10:30 am - 10:45 am	Saba Sebak
11:00 am - 11:15 am	Donatella Foguola Protti
11:15 am - 11:30 am	Lidia Vi
11:30 am - 11:45 am	Trina Hancock
12:00 pm - 1:00 pm	Lunch (provided)
1:00 pm - 1:15 pm	End Of Qa
1:15 pm - 1:30 pm	Suzon Bourque
1:30 pm - 1:45 pm	Stephen Andrews
2:00 pm - 3:00 pm	Minisymposium Presented by Dr. Ursula Strochaj
3:15 pm - 4:00 pm	Award Ceremonies Closing Remarks



PARTEQ innovations

advancing discovery

www.parteqinnovations.com

CANADIAN SOCIETY
FOR LIFE SCIENCE
RESEARCH



SOCIÉTÉ CANADIENNE
DE RECHERCHE DES
SCIENCES DE LA VIE

Second Annual Conference
McGill University, Montréal,
Québec
July 13th-14th, 2007

The CSLSR would like to thank its sponsors and affiliates:



Canadian Institutes for Health Research (CIHR) (Institute of Infection & Immunity)

Merck-Frosst

Department of Microbiology and Immunology, McGill University

Department of Human Genetics, McGill University

Faculty of Dentistry, McGill University

Department of Science, McGill University

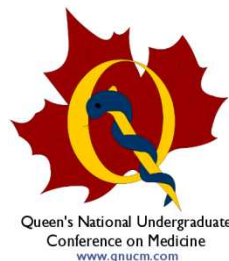
McGill Office of Technology Transfer

NaHSSA

McGill Journal of Medicine

Queen's National Undergraduate Conference on Medicine

Society of Graduate and Professional Students, Queen's University



Canadian Society for Life Science Research

P.O. BOX 865 (STATION MAIN)

Kingston, ON K7L 4X6

www.cslsr.ca