

CSI Program 2015 / Programme de la SCI 2015

28th Annual Spring Meeting of the Canadian Society for Immunology 28^e Réunion annuelle de la Société canadienne d'immunologie

Fairmont Winnipeg Hotel, Winnipeg, Manitoba
June 4 – 7, 2015 / 4 – 7, juin 2015

Thursday, June 4 / Jeudi, 4 juin

09:00 – 17:00 Canadian Student Health Research Forum Symposium (University of Manitoba event) “Immune Balance and Health”

15:00 – 21:00 CSI Meeting Registration / Inscriptions (*Lancaster*)

15:00 – 20:00 Exhibitor Set-up / Installation des exposants (*Midway Ballroom*)

Poster Set-up / Installation des affiches (*Midway Ballroom/Foyer*)

16:00 – 20:00 CSI Council Meeting / Réunion du Conseil de la SCI (*CSI Council only*)
(*Oxford Room*)

18:30 – 20:00 Registrants on their own for dinner

20:00 Exhibits Open (*Midway Ballroom*)

20:30 – 21:30 **Keynote Address** (*West Ballroom*)

“Development of HIV-1 Broadly Neutralizing Antibodies”

Dr. Michel Nussenzweig, *Senior Physician, Zanvil A. Cohn and Ralph M. Steinman Professor, Howard Hughes Medical Institute, The Rockefeller University, USA*

21:30 – 23:30 Opening Reception / Réception d'ouverture (*Midway Ballroom*)

Meet the Exhibitors / Rencontre des exposants

Friday, June 5 / Vendredi, 5 juin

- 07:00 Registration / Inscriptions (*Lancaster*)
- 07:00 – 09:00 Breakfast / Déjeuner (*East Ballroom*)
- Poster Set-up Odd / Installation des affiches (*Midway Ballroom/Foyer*)
- 08:30 Meet the Exhibitors / Rencontre des exposants (*Midway Ballroom*)

Sponsored by / Parrainé par: CIHR Institute of Infection and Immunity

- 09:00 – 12:00 **Symposium 1: Microbiome and Chronic Disease** (*West Ballroom*)
- Chair: Dr. Jayne Danska
- 09:00 – 09:30 “Cross-kingdom interactions regulate intestinal immunity and inflammation”
- Dr. Lisa Osborne**, *Assistant Professor, Department of Microbiology and Immunology, University of British Columbia, Canada*
- 09:30 – 10:00 “The network of autoimmunity: genes, sex and the microbiome”
- Dr. Jayne Danska**, *Professor, Medical Biophysics, Institute of Medical Sciences, Hospital for Sick Children and University of Toronto, Canada*
- 10:00 – 10:30 “Mining novel diagnostic and therapeutic targets in diabetes mellitus by fecal transplantation”
- Dr. Max Nieuwdorp**, *Principal Investigator; Head, Department of Experimental Vascular Medicine, Academic Medical Centre, University of Amsterdam, The Netherlands*
- 10:30 – 11:00 Refreshment Break / Pause (*Midway Ballroom*)
- 11:00 – 11:30 “Host determination of bacterial immunogenicity and pathogenicity”
- Dr. Michael Surette**, *Professor, Dept. of Medicine & Dept. of Biochemistry & Biomedical Sciences; Principal Investigator, Farncombe Family Digestive Health Research Institute, McMaster University, Canada*

- 11:30 – 12:00 "Frenemies in the Gut – Infectious Agents that Defy Traditional Classifications"
Dr. Kenneth Cadwell, *Assistant Professor, Dept. of Microbiology, Skirball Institute, New York University Langone Medical Center, USA*
- 12:00 Exhibits Close
- 12:00 – 14:00 Buffet Lunch / Dîner (*East Ballroom*)
Poster Set-up, Recreation / Installation des affiches, Pause (*Midway Ballroom/Foyer*)
- 12:30 – 13:30 Trainee one-minute, 1 slide presentations (*East Ballroom*)

Sponsored by / Parrainé par:
BioLegend, Miltenyi Biotec, StemCell Technologies Inc.

Concurrent Sessions:

- 13:30 – 15:30 **Workshop 1 / Atelier 1** (*Lombard Room*)
Leukocyte Development, Activation, and Signalling
Chairs: Dr. Martin Richer, *McGill University*
Dr. Bebhinn Treanor, *University of Toronto Scarborough*
- 13:30 – 15:30 **Workshop 2 / Atelier 2** (*Harrow/Essex/Canterbury Room*)
Immune Mediated Diseases: Tolerance, Autoimmunity and Inflammation
Chairs: Dr. Katrina Gee, *Queen's University*
Dr. Neeloffer Mookherjee, *University of Manitoba*
- 15:45 – 17:45 **1st Poster Session / 1^{ère} Séance d'affiches** (*Midway Ballroom/Foyer*)
Odd Numbered Posters / Affiches à numéros impairs
Cash bar / bar payant
Meet the Exhibitors / Rencontre des exposants
- 17:45 Exhibits Close / Fermeture des exposants
Remove Odd Numbered Posters / Affiches à numéros impairs
- 18:00 Bus Transportation from Hotel to Banquet Dinner (*The Gates*)

- 18:20 – 19:20 Reception – *The Gates Deck*
Sponsored by Roche
- 19:30 Banquet Dinner / Banquet
- 20:30 – 21:30 **Bernhard Cinader Award Lectureship / Conférence du prix Bernhard Cinader**
“The Art Behind Going Viral”
Dr. Eleanor N. Fish, *Professor, Department of Immunology, University of Toronto; Director, Arthritis & Autoimmunity Research Centre, University Health Network; Senior Scientist Division of Advanced Diagnostics, Toronto General Research Institute*
- 21:30 Presentation of Investigator Awards
- 22:00 Bus Transportation from Banquet Dinner (*The Gates*) to Hotel

Congratulations / Félicitations



Eleanor N. Fish, Ph.D., University of Toronto

***The 2015 CSI – Hardy Cinader Award Recipient
Presentation: “The Art Behind Going Viral”***

*Professor, Department of Immunology, University of Toronto;
Director, Arthritis & Autoimmunity Research Centre,
University Health Network; Senior Scientist Division of
Advanced Diagnostics, Toronto General Research Institute.*

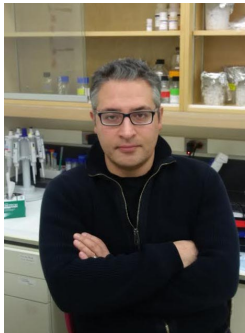
Dr. Fish is the Tier 1 Canada Research Chair in Women’s Health & Immunobiology, a McLaughlin Scholar and was elected as a Fellow to the American Academy of Microbiologists. In 2010 Dr. Fish was awarded the prestigious Vivian & Seymour Milstein Award, recognizing her exceptional contributions to interferon and cytokine research that have led to advancements in human health. This Milstein Award represents the pinnacle of scientific achievement in interferon and cytokine research. In 2012 Dr. Fish received the Canadian Society for Immunology Investigator Award. Dr. Fish received her undergraduate B.Sc. degree in Biological Chemistry from the University of Manchester, England, and her Master of Philosophy in Virology from King’s College, University of London, England. She received her Ph.D. in Cell Biology from the Institute of Medical Science at the University of Toronto, Canada. Dr. Fish is a member of several societies, including the American Society for Microbiology, the Canadian Society for Immunology, and the International Cytokine and Interferon Society, for which she is Past President (2008-2010). She is on the editorial boards for the *Journal of Interferon and Cytokine Research*, *Viruses*, and *Arthritis & Rheumatology*. Her work has been published in many scientific journals, including the *Journal of Immunology*, *Experimental Hematology*, *Circulation*, *Blood*, *Nature*, *PNAS*, *JAMA*, *Journal of Experimental Medicine*, *Journal of Virology*, *Journal of Leukocyte Biology*, *PLoS One* and the *Journal of Biological Chemistry*. Dr. Fish studies the interactions of cytokines, specifically interferons and chemokines, with their receptors in normal and diseased tissues and cells. A focus of Dr. Fish’s research is the investigation of host-pathogen interactions at the cellular and molecular level, specifically in the context of viruses and interferons. During the 2003 outbreak of SARS in Toronto, she initiated studies to investigate the therapeutic potential of interferon in SARS patients. Encouraging results have directed her group’s efforts toward examining interferon activity against a number of emerging infectious diseases, such as avian H5N1 and pandemic H1N1 influenza viruses. Most recently, her studies have focused on investigating the therapeutic effectiveness of interferon treatment for Ebola virus disease, with a clinical trial in Guinea. Dr. Fish is a member of a WHO Working Group to evaluate the therapeutic effectiveness of different vaccine and antiviral interventions against Ebola virus. Another focus of her work relates to understanding the immune mechanisms that drive autoimmunity, related to rheumatoid arthritis and multiple sclerosis. Most recently, Dr. Fish has initiated research studies in breast cancer, within the context of understanding how chemokine-driven alterations to metabolism influence the growth and metastasis of breast tumors. Another facet related to Dr. Fish’s research activities involves global outreach, specifically to resource poor regions. For many years Dr. Fish, as Visiting Professor, has been involved in curriculum development and mentoring both Faculty and students in the Department of Immunology at Moi University in Kenya. This extends now to the ongoing development of basic science courses with relevance for trainee MDs, nurses and dentists. She has made these courses available to different institutions across Kenya. In addition, she has established an international initiative – Beyond Science Initiative - that sees undergraduate and graduate students from the University of Toronto communicating with students around the globe as mentors as well as activists in the area of social justice; To foster partnerships among the next generation of global scientific leaders who will appreciate cultural sensitivities and global responsibilities. Finally, Dr. Fish has a keen interest in the arts, focusing her creative side on non-objective art. She has exhibited her work locally in Toronto.



CSI Investigator Award Congratulations / Félicitations

Dr. Dana Philpott, *Associate Professor, Department of Immunology, University of Toronto; Co-director, Canadian Foundation for Innovation-funded Host-Microbiome Research Network*

Dana Philpott is an Associate Professor in the Department of Immunology at the University of Toronto and co-director of the Canadian Foundation for Innovation-funded Host-Microbiome Research Network. Dr. Philpott obtained her PhD from the University of Toronto, under the supervision of Dr. Phil Sherman, where she studied host-pathogen interactions, focusing on enteropathogenic *Escherichia coli* infection of epithelial cells. She then did her post-doctoral work at the Institut Pasteur under the direction of Dr. Philippe Sansonetti and later became a group leader at this institute. Dr. Philpott was recruited to Toronto in 2006. The research focus in Dr. Philpott's laboratory is to understand how Nod-like receptors influence gut homeostasis and how this might impact infection and disease pathogenesis. A particular interest in the laboratory is understanding Crohn's disease pathogenesis by studying the function of genes that have been linked to the development of this disease, including *NOD2* and *ATG16L1*, as well as their interplay with the gut microbiota. Dr. Philpott has over 150 publications, a number of them in high profile journals. Her discoveries, which she did in collaboration with Dr. Stephen Girardin, include identification of the peptidoglycan ligands for NOD1 and NOD2, uncovering a role for NOD2 and ATG16L1 in bacterial autophagy and regulation of NOD-driven inflammatory responses by ATG16L1. She has received a number of awards for research, including the EMBO Young Investigator Award, a Howard Hughes International Scholar award, and Canadian Association for Gastroenterology Young Investigator Award. Research in the Philpott laboratory is funded by the Canadian Institutes for Health Research, Natural Sciences and Engineering Research Council of Canada and a grant from Crohn's and Colitis Canada / Vertex Pharmaceuticals.



CSI New Investigator Award Congratulations / Félicitations

Dr. Mani Larijani, *Associate Professor, Immunology and Infectious Diseases, Dept. of BioMedical Sciences, Memorial University of Newfoundland*

Mani is an Associate professor of Immunology and Infectious Diseases in the Department of BioMedical Sciences, Memorial University of Newfoundland where he took up his position as a faculty member in the summer of 2009. Mani's research interests lie in understanding genome-mutating enzymes: their mechanisms, regulation in normal vs. cancer cells, and facets through which they contribute to immunity, cancer and evolution of viruses. Mani completed his Ph.D. at the Department of Immunology, University of Toronto, under the mentorship of Dr. Gillian Wu, in collaboration with the laboratory of Dr. Marjorie Oettinger at the Department of Genetics, Harvard. He subsequently conducted post-doctoral studies at the Department of Immunology, University of Toronto under the mentorship of Dr. Alberto Martin. Other peer-reviewed awards and recognitions in the last 5 years include a CIHR New Investigator Award, the President's award for outstanding research at Memorial University, the Terra Nova young innovator award at Memorial University, the Wallace Ingram Award for Faculty in Medicine at Memorial University and early tenure and promotion to the rank of Associate Professor. Mani is an invited peer reviewer for numerous agencies including CIHR, NIH, Canadian Cancer Society and Canadian Breast Cancer Foundation. Graduate students from Mani's lab have been recognized with CSI 1st place poster and travel awards as well as CIHR and other nationally competitive graduate fellowships.

Saturday, June 6 / Samedi, 6 juin

- 07:00 – 09:00 Breakfast / Déjeuner (*East Ballroom*)
Poster Set-up Even / Installation des affiches (*Midway Ballroom/Foyer*)
- 08:00 Meet the Exhibitors / Rencontre des exposants (*Midway Ballroom*)
- 08:30 – 12:00 **Symposium II: Development and function of innate lymphocyte populations**
(*West Ballroom*)
Chairs: Dr. Kelly McNagny and Dr. Fumio Takei
- 08:30 – 09:00 "The innate lymphoid precursor"
Dr. Albert Bendelac, *A.N. Pritzker Professor, Committee on Immunology, Dept. of Pathology, The University of Chicago, USA*
- 09:00 – 09:30 "ILC in Immunity"
Dr. Marco Colonna, *Robert Rock Belliveau, M.D. Professor of Pathology, Washington University - School of Medicine, USA*
- 09:30 – 10:00 "ILC2s in priming local responses and chronic disease"
Dr. Kelly McNagny, *Professor, Department of Medical Genetics; Interim Co-Director of the Biomedical Research Centre, The University of British Columbia, Canada*
- 10:00 – 10:30 Refreshment Break / Pause (*Midway Ballroom*)
- 10:30 – 11:00 "Human innate lymphoid cells in tissue homeostasis and inflammation"
Dr. Jenny Mjosberg, *Assistant Professor, Dept. of Medicine, Karolinska Institute, Sweden*
- 11:00 – 11:30 "Immune regulation of intestinal health and disease"
Dr. Greg Sonnenberg, *Research Associate, Dept. of Medicine, University of Pennsylvania, USA*

- 11:30 – 12:00 "Allergen-experienced ILC2s promote allergic lung inflammation"
Dr. Fumio Takei, *Distinguished Scientist, Terry Fox Laboratory, BC Cancer Agency; Professor, Dept. of Pathology & Laboratory Medicine, University of British Columbia, Canada*
- 12:00 Exhibits Close / Fermeture des exposants
- 12:00 – 13:00 CSI Annual General Meeting / Assemblée Générale de la SCI
(West Ballroom)
- 12:00 – 14:00 Buffet Lunch / Dîner (*East Ballroom*)
 Poster Set-up, Recreation / Installation des affiches, Pause
(Midway Ballroom/Foyer)
- 13:00 – 16:00 Winnipeg City Sightseeing Tour (*for those registered to participate*)
- 13:30 – 15:00 Canadian Museum of Human Rights Tour (*for those registered to participate*)

Sponsored by / Parrainé par:
BioLegend, Miltenyi Biotec, StemCell Technologies Inc.

Concurrent Sessions:

- 14:30 – 16:30 **Workshop 3 / Atelier 3** (*Lombard Room*)
 Host-Pathogen Interactions: Innate Immunity to Adaptive Immune Responses
 Chairs: Dr. Thomas Murooka, *University of Manitoba*
 Dr. Shokrollah Elahi, *University of Alberta*
- 14:30 – 16:30 **Workshop 4 / Atelier 4** (*Harrow/Essex/Canterbury Room*)
 Tumor Immunology, Immunotherapy and Vaccines
 Chairs: Dr. Naoto Hirano, *Princess Margaret Cancer Centre*
 Dr. Marko Kryworuchko, *University of Saskatchewan*

16:30 – 18:30 **Special session for trainees: Professional Development Workshop for Graduate Students and PDFs**

(West Ballroom)

Dr. Nana Lee, *Lecturer and Coordinator, Graduate Professional Development, University of Toronto*

18:30 – 20:00 Buffet Dinner / Souper (*East Ballroom*)

19:00 – 20:00 Trainee one-minute, 1 slide presentations (*East Ballroom*)

20:00 – 22:00 2nd Poster Session / 2^{ème} Séance d'affiches (*Midway Ballroom/Foyer*)

Even Numbered Posters / Affiches numéros pairs

Meet the Exhibitors / Rencontre des exposants

Cash bar / Bar payant

22:00 Exhibits Close / Fermeture des exposants

Remove Even Numbered Posters / Affiches à numéros pairs

Sunday, June 7 / Dimanche, 7 juin

07:00 – 09:00 Breakfast / Déjeuner (*East Ballroom*)

08:30 Meet the Exhibitors / Rencontre des exposants (*Midway Ballroom/Foyer*)

09:00 – 12:00 **Symposium III: Translating the Science of Cellular Immunotherapy to the Clinic**

(West Ballroom)

Chairs: Dr. Michel Tremblay and Dr. Donna Wall

09:00 – 09:30 “Bone marrow transplantation: the original cell therapy”

Dr. Donna Wall, *Professor, Pediatrics and Child Health, University of Manitoba/CancerCare Manitoba, Canada*

- 09:30 – 10:00 “Novel directions in Dendritic Cell Immunotherapy using protein tyrosine phosphatase modulations”
- Dr. Michel L. Tremblay** *FRSC, Jeanne and Jean-Louis Levesque Chair in Cancer Research, James McGill Professor, Goodman Cancer Research Centre and Dept. of Biochemistry, McGill University, Canada*
- 10:00 – 10:30 Refreshment Break / Pause (*Midway Ballroom*)
- 10:30 Exhibits Close / Fermeture des exposants
- 10:30 – 11:00 “Cell Therapy for ALL Crosses the Activity Threshold”
- Dr. Stephan Grupp**, *Director of Transplant Research, Center for Childhood Cancer Research; Medical Director, Stem Cell Laboratory, The Children's Hospital of Philadelphia, USA*
- 11:00 – 11:30 “Mesenchymal Stromal Cell Suppression of Immune Response: From Discovery to Design of Cell Therapy Studies”
- Dr. Jacques Galipeau** *FRCP(C), Professor of Hematology and Medical Oncology and Pediatrics, Emory University, GRA Distinguished Cancer Scientist, Emory University, USA*
- 11:30 – 11:40 “Design and optimization of mass spectrometry to measure immune reconstitution post-transplant”
- Nicholas AJ Dawson**, *PhD Student, Department of Medicine, University of British Columbia & Child and Family Research Institute, Vancouver, BC*
- 11:40 – 11:50 “A Phase II study (NCT01883323) evaluating the infusion of autologous tumor-infiltrating lymphocytes (TIL) and low-dose Interleukin-2 (IL-2) therapy following non-myeloablative lymphodepletion using cyclophosphamide and fludarabine in patients with metastatic melanoma”
- Dr. Linh Nguyen**, *Head, Translational Immunotherapy Laboratory, Princess Margaret Cancer Centre, University Health Network*
- 12:00 – 12:30 Travel and Poster Awards / Bourses de Voyage/Tombola
- 12:30 – 14:00 Lunch / Dîner (*East Ballroom*)
- 14:00 CSI Meeting Ends / Fin de la Conférence

Following the CSI Meeting: (*West Ballroom*)

13:30 – 16:00 **Satellite symposium organized by the Prairie Infectious Immunology Network**

Paradigms Lost, Pragmatism Regained

Chairs: Dr. Jude Uzonna, University of Manitoba and Dr. John Gordon, University of Saskatchewan

Speakers include:

Dr. John O'Shea (NIH), Plasticity of T Cell Subsets

Dr. Thomas Tedder (Duke University), The Role of B cells in Immune Regulation

Dr. Jay Kolls (University of Pittsburgh), The Roles of Th17 Cells in Infection and Immunity

Dr. Jude Uzonna (University of Manitoba), Regulation of Parasitic Immunity by Class II-Restricted Innate-Like T Cells

Dr. John Gordon (University of Saskatchewan), Regulatory Dcs

*Thank you and have a safe journey
Merci, au revoir et bon voyage de retour*