

Infectious Diseases and Immunity in Global Health Program Programme en maladies infectieuses et immunité en santé mondiale

RESEARCH DAY 2016





@IDIGHProgram

Friday, April 22, 2016

WELCOME FROM DR. VASSILIOS PAPADOPOULOS

Executive Director and Chief Scientific Officer, Research Institute of the McGill University Health Centre (RI-MUHC)

Dear colleagues,

Welcome to the 2016 Research Day of the Infectious Diseases and Immunity in Global Health (IDIGH) Program. IDIGH's goals are to catalyze innovative research, establish discovery pipelines, and to train the next generation of scientists in the areas of infectious diseases, immunology and global health. The program's interests range from respiratory, viral, fungal and bacterial infections to allergy, auto-immunity and immune regulation, as well as global and neglected infectious diseases.

The resurgence of pandemics and overlooked tropical diseases, together with the positioning of immunotherapy at the forefront of novel treatments for various diseases, highlight the importance of the work from IDIGH members.



More than ever, their research stands at the leading edge of research discovery, treatment and outcome evaluation. This Research Day gives the opportunity to colleagues and visitors to discover the exciting new findings from IDIGH members, students and staff.

I wish you all a productive day that will educate, enhance discovery and facilitate the development of collaborations to advance the research of the members of IDIGH.

Thank you for attending.

Vassilios Papadopoulos Executive Director RI MUHC

WELCOME FROM DR. ERWIN SCHURR

Director, IDIGH Program



Dear IDIGH Research Day Attendees,

At last, the spring is around the corner. What a better time to get together to celebrate the one-year anniversary of our Infectious Diseases and Immunity in Global Health (IDIGH) program!

The objective of the Research Day is to gather our program members to foster exchanges and discussions across disciplines and groups. This Research Day will bring together 279 participants -149 attendees are from across the four pillars (CTB, CORE, Clinical and Campus-based) of the program: 71 trainees, 23 PIs and 55 research staff. In addition, there are 39 representatives from 25

biotech and pharmaceutical companies as well as vendors and service providers and 91 research staff and trainees from other RI-MUHC programs who will participate in the product show.

We are looking forward to 35 presentations (both oral and posters) from trainees of the four IDIGH pillars. The Research Day will provide an opportunity for our trainees to showcase their research findings and to receive feedback on their results. I have no doubt that it will also provide a platform to interact and exchange research ideas in infectious diseases, immunity and global health for this diverse set of attendees.

I am grateful for the participation of Dr. Noni MacDonald and Dr. Jörn Coers who graciously accepted the invitation by our trainee committee to act as keynote speakers. The presentation of their latest discoveries, their insights into new trends in infectious diseases and immunity research in global health, and their advice to our trainees will be greatly appreciated.

We thankfully acknowledge our sponsors and partners. Their generous financial support has contributed to the success of our Research Day. I strongly encourage all of you to visit tables and booths and to get informed about the latest in research support.

Finally, a big thanks to our trainee committee (headed by Constantina Boikos and Alessandra Ricciardi), who have worked tirelessly in putting this event together. I believe you agree with me that they assembled an interesting and exciting program which brings out the best in IDIGH!

Enjoy the Research Day!

Erwin Schurr, **IDIGH Program Leader**

PROGRAM

Event	Time
Registration & Breakfast	8.00 AM – 8.55 AM
Opening Remarks – Dr. Don van	8.55 AM – 9.00 AM
Meyel (Director, Centre for Translational Biology, the RI-MUHC)	
Keynote Speaker 1 – Dr. Noni	9.00 AM – 10.00 AM
MacDonald (Dalhousie University)	
Session 1 -Student Presentations	10.00 AM – 11.00 AM
Light Refreshment & Sponsor Product	11.00 AM – 11.30 AM
Show	
Session 2 -Student Presentations	11.30 AM – 12.30 PM
Lunch Break, Poster Viewing	12.30 PM – 2.00 PM
(without presentations), Sponsor Product	
Show	
Door Prizes	2.00 PM – 2.15 PM
Session 3 -Student Presentations	2.15 PM – 3.15 PM
Keynote Speaker 2 – Dr. Jorn	3.15 PM – 4.15 PM
Coers (Duke University)	
Poster Presentations, Judging,	4.15 PM – 6.00 PM
Cocktails & Snacks	
Award Presentation and Closing	6.00 PM – 6.20 PM
Remarks – Dr. Erwin Schurr (Leader,	
IDIGH Program)	

KEYNOTE SPEAKERS

Dr. Noni MacDonald

Professor, Department of Pediatrics, Dalhousie University <u>noni.macdonald@dal.ca</u>



Dr. Noni MacDonald is a Professor of Paediatrics at Dalhousie University with a clinical appointment in Paediatric Infectious Diseases at the IWK Health Centre in Halifax. She is a member of the Canadian Centre for Vaccinology, Halifax and is head of the Health Policy and Translation Group. She is the former Dean of Medicine at Dalhousie University. Prior to coming to Dalhousie in 1999, Dr. MacDonald worked for 18 years at the University of Ottawa, the Children's Hospital of Eastern Ontario (CHEO) and the Ottawa General as a professor, teacher, clinician and researcher in paediatrics and infectious diseases.

Her major research interests have included the microbiology of cystic fibrosis; stress management in medical faculty; sexually transmitted diseases in adolescents; and, vaccines for serious infectious diseases in children and youth. She has published over 190 papers, served on the editorial boards of several major publications, and is the founding Editor in Chief for Paediatrics and Child Health, one of the most read Canadian speciality journals.

She is active in many academic and professional organizations as well as federal government committees and task forces. She also is a consultant to the Department of Immunization, Vaccine and Biologicals of WHO since completion of her term on the World Health Organization's Global Advisory Committee on Vaccine Safety. Dr. MacDonald has long been recognized in Canada as an advocate for children and youth health and as a leader in paediatric infectious disease.

Dr. Jörn Coers

Assistant Professor, Department of Molecular Genetics and Microbiology, Duke University jorn.coers@duke.edu

Jörn Coers received his M.Sc. degree in Biology from the University of Konstanz, Germany in 1999. While enrolled at the University of Konstanz, Dr. Coers conducted his M.Sc. thesis work in Craig Roy's laboratory at the State University of New York, Stony Brook and later at Yale University where he continued to work as a research assistant until the spring of 2000. Dr. Coers made several important findings during his two and a half year stint in the Roy lab including the discovery of a chaperone complex in the bacterial pathogen *Legionella pneumophila* that is essential for the injection of virulence factors into host cells.



For his doctoral training, Dr. Coers employed transgenic mouse models to study the role of cytokine signaling in hematopoiesis at the German Cancer Research Center and at the

University of Basel, Switzerland, in the laboratory of Radek Skoda. His work led to the discovery that aberrant expression of the thrombopoietin receptor protein can cause thrombocytosis due to a shift in the balance between thrombopoietin-induced proliferation of platelet precursor cells and removal of thrombopoietin by receptor mediated internalization in platelets.

For his postdoctoral training, he returned to the topic of host-pathogen interactions and applied his knowledge of mouse genetics to study infectious disease in the labs of Bill Dietrich and Michael Starnbach at Harvard Medical School. He identified members of a large family of Interferon-inducible GTPases as critical components in the innate immune response to the bacterial pathogen Chlamydia trachomatis, the cause of a common sexually transmitted disease resulting in sterility and the leading cause of preventable blindness globally.

In 2010, Dr. Coers began his independent laboratory as an Assistant Professor in the Department of Molecular Genetics and Microbiology at Duke University Medical Center. His laboratory is interested in the fundamental aspects of immune recognition of intracellular bacterial pathogens and the corresponding microbial counter-immune strategies. His lab uses applied genetic approaches in mice and mammalian cell lines to identify novel host genes required for innate immune responses and bacterial genetics to identify key bacterial genes involved in triggering or evading host immunity.

ABSTRACTS

Format	Time	Name	Abstract title
ORAL	Session 1 (10.00 AM – 11.00 AM)	Hilary Hendin	Plant-made virus-like particles bearing influenza hemagglutinin elicit a rapid and robust innate immune
			response in vitro
ORAL	Session 1	Robyn Lee	Progression to Tuberculosis Disease Increases with
	(10.00 AM – 11.00 AM)		Multiple Exposures
ORAL	Session 1 (10.00 AM – 11.00 AM)	Vinicius Fava	A genome wide association study of pathological inflammatory responses in leprosy
ORAL	Session 2 (11.30 AM – 12.30 PM)	Brendan Snarr	The Mammalian Lectin Galectin-3 Specifically Recognizes the Aspergillus fumigatus Exopolysaccharide Galactosaminogalactan and Mediates Host Defence.
ORAL	Session 2 (11.30 AM – 12.30 PM)	Andràs Lènàrt	HIV patient engagement in the development of HIV specific health measures: Literature review and framework analysis
ORAL	Session 2 (11.30 AM – 12.30 PM)	Mathieu Mancini	An ENU-induced mutation in Rel confers susceptibility to herpes simplex encephalitis
ORAL	Session 3 (2.15 PM – 3.15 PM)	Shane Baistrocchi	Antifungal-loaded neutrophils as a drug delivery system targeting pulmonary Aspergillus fumigatus infections
ORAL	Session 3 (2.15 PM – 3.15 PM)	Elise Vuille-Lessard	Prevalence and Cofactors of Nonalcoholic Fatty Liver Disease diagnosed by Transient Elastography with Controlled Attenuation Parameter in HIV Mono-Infection
ORAL	Session 3 (2.15 PM – 3.15 PM)	Jenn Marton	Forward Genetic Approach in Mice Identifies Tnni3k As a Modulator of Cardiomyocyte Innate Immunity During Viral Myocarditis.
			Myocaranis.
POSTER	Poster session	Marie-Helene Lacombe	
POSTER	Poster session (4.15 PM – 5.45 PM)	Marie-Helene Lacombe	Creating new research opportunities through advances in cell sorting and analytical flow cytometry
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POSTER POSTER POSTER POSTER POSTER	(4.15 PM - 5.45 PM) $Poster session$ $(4.15 PM - 5.45 PM)$	Min Fu Breanna Hodgins Sophie Huddart Natalia De Franca Shimabukuro Monica Elizabeth Dallmann Sauer Anastasia Cheng	Creating new research opportunities through advances in cell sorting and analytical flow cytometry WELCOME TO RI-MUHC IMAGING FACILITY Alternative Administration Routes of H1-VLP Vaccine for Better Protection & Immune Response in the Elderly Knowledge of tuberculosis among 6109 patients in a NGO-supported DOTS program in India Hematopoietic Stem and Progenitor Cell Dysfunction in Treatment Naïve Rheumatoid Arthritis Patients Exome sequencing in a family with twins displaying early- onset leprosy Reactive Oxygen-Mediated Reduction of Immunosuppressive Capacity in Aged Human Mesenchymal Stromal Cells

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POSTER	Poster session (4.15 PM – 5.45 PM)	Jean-Yves Dubé	The Contribution of N-Glycolyl Muramyl Dipeptide to Cell- Mediated Immunity Elicited by Complete Freund's Adjuvant
POSTER	Poster session (4.15 PM – 5.45 PM)	Marwan Ghanem	Complementation of Mycobacterium tuberculosis-specific genes in M. kansasii to describe early stages of TB infection.
POSTER	Poster session (4.15 PM – 5.45 PM)	Sofianne Gabrielli	Increased drug-induced anaphylaxis visits and factors affecting reaction severity: a 3-year follow-up study in two Emergency Departments in Montreal
POSTER	Poster session (4.15 PM – 5.45 PM)	Cristiano Moura	Risk of hospitalization for serious infection in ankylosing spondylitis (AS) patients using nbDMARD or Anti-TNF
POSTER	Poster session (4.15 PM – 5.45 PM)	Alizée Dery	START: Susceptibility To food Allergies in a Registry of Twins
POSTER	Poster session (4.15 PM – 5.45 PM)	Kristin Van Den Ham	Protein Tyrosine Phosphatase Inhibition Enhances The Generation Of Protective Tr1 Cells And Attenuates The Brain Sequestration Of Pathogenic T Cells During Experimental Cerebral Malaria
POSTER	Poster session (4.15 PM – 5.45 PM)	Alonso Lira Filho	Identification of cellular and immunological mechanisms triggered by Leishmania-derived exosomes in Cutaneous Leishmaniasis
POSTER	Poster session (4.15 PM – 5.45 PM)	Fazila Chouiali	Histopathology Platform
POSTER	Poster session (4.15 PM – 5.45 PM)	Cynthia Kanagaratham	Phenotypes of Ascaris suum extract induced allergic asthma in non-human primates prevented by resiquimod (S28463) treatment
POSTER	Poster session (4.15 PM – 5.45 PM)	Brendan Snarr	Microbial Glycoside Hydrolases as Antibiofilm Agents with Cross-Kingdom Activity Against Bacteria and Fungi
POSTER	Poster session (4.15 PM – 5.45 PM)	Emily MacLean	Biomarkers for active tuberculosis and prediction of active disease: a scoping landscape review
POSTER	Poster session (4.15 PM – 5.45 PM)	Fernando Alvarez	The role of the alarmin IL-33 in the dynamics of regulatory T cell reprogramming in inflammatory conditions
POSTER	Poster session (4.15 PM – 5.45 PM)	Andrezza De Melo	Leishmanicidal activity and immunomodulatory effects of the Cramoll 1,4 Lectin
POSTER	Poster session (4.15 PM – 5.45 PM)	Anupam Adhikari	SHP-1-Regulated Hepatocyte Inflammatory Response Is Critical During Septic Shock
POSTER	Poster session (4.15 PM – 5.45 PM)	Gabriel André Leiva- Torres	An N-Ethyl-N-Nitrosourea Induced mutation in the GNL1 GTPase causes an NK cells deficiency and a susceptibility to Cytomegalovirus
POSTER	Poster session (4.15 PM – 5.45 PM)	Sanjoy Kumar Das	The Drug Discovery Platform of the Center for Translational Biology (CTB) to Discover Promising New Therapeutics

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GENERAL SPONSORS



ACKNOWLEDGEMENTS



Dr. Jing Liu, IDIGH Program Manager



Ms. Joanne Krief IDIGH Program Assistant



Constantina (Tina) Boikos President of the Research Day Committee



Alessandra Ricciardi President of the Work in Progress Seminars



Supporting RI²GHT Committee Members: (Top, left to right) Vinicius Medeiros Fava, Rosalie Ponte, Vikram Mehraj, Alonso Lira Filho, (Middle, left to right) Alessandra Ricciardi, Kristin Van Den Ham, Constantina Boikos (Bottom, left to right) Breanna Hodgins, Hilary Hendin, Zahra Kiani, (Missing from picture) Roman Istomine, Robyn Lee, Jeremy Manry

BOOTH/POSTER LAYOUT



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Yurchenko Ekaterina Research Assistant

IDIGH Program

Zacharias Caitlin

Ph.D. Student

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VENUE & HOW TO GET HERE

Research Day Location: E-S1 of block E (seen below in red), 1001 Boul Decarie, Glen Site, Montreal, Quebec H4A 3J1

How to get here:

- Metro: Vendôme station (Orange Line): a few minutes walking distance, also connected underground;
- **Bus:**17, 37, 90, 102, 104, 105 and 124 stop at Vendôme station, and 78, 24 and 63 stop near the MUHC Glen site and 77 stops at the MUHC Glen site private road;
- **Commuter trains:** Vendôme metro station connects to: Saint-Jérôme, Candiac and Vaudreuil/Hudson;
- Car: easily accessible from highways 15, 20 and 720.
 - The public Glen parking lot entrance is on Décarie Blvd.
 - Parking: Entrance (seen below light blue arrow) cost: \$25 per day.
 - Elevator: press **S1**, and follow the signs to E block (seen below in red).

