Institut de recherche
Centre universitaire de santé McGill

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

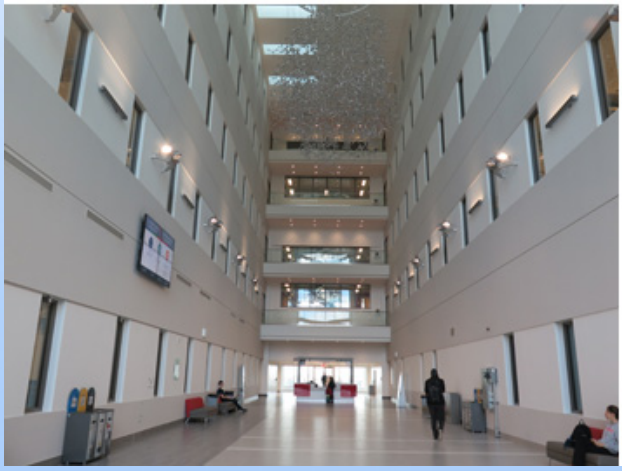
*Improving Global Health through Research*
*La recherche pour le bénéfice de la santé mondiale*

http://idigh.ca

# *IDIGH Program Symposium 2017*

**Friday October 20, 2017**

Atrium and Amphitheater of the RI-MUHC, 1001 Boul Decarie

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# *Welcome From The Symposium Organizers*

Dear Symposium Attendees,

On behalf of the IDIGH Program, it is with great pleasure that we welcome you to join our third Annual Symposium at the RI-MUHC on Friday October 20, 2017.

The objective of our upcoming IDIGH Program Symposium is again to provide a platform for all participants to interact and exchange research ideas in the area of infectious diseases, immunity and global health. This year's symposium will bring together 245 attendees from more than 40 different academic research departments, centers and institutions, and pharmaceutical companies. Hopefully, the synergies emerging from our symposium will lead to innovative new collaborations not only among the RI- MUHC/McGill groups but the larger Canadian and international Global Health communities.

The focus of the symposium 2017 will be on **"from molecules to patients to policies"**. We are grateful for the participation of our guest speakers who are leading experts in the fields of translational immunology and transplant (Dr. Megan Sykes), immunopathogenesis (Dr. Steven Holland), HIV/AIDS prevention, research and treatment (Dr. Chris Beyrer), and epidemiology, mathematical modeling, vaccine safety and policy (Dr. Gaston De Serres and Dr. Danuta Skowronski). We are looking forward to learning about the latest results of their cutting-edge research and are eager to apply their experiences in moving "from molecules to patients to policies" into our own efforts.

We are thankful for the contributions of our sponsors/partners, and acknowledge a dissemination grant from the CIHR. Without their generous support, it would not be possible to hold this symposium free of charge for the participants.

We thank our volunteers Tho-Alfakar Al-Aubodah, Lynn Dery Capes, Breanna Hodgins, Roman Istomine, Sanket Kant, Zahra Kiani, Maxime Lemieux, Marcia McKenzie and James Stewart for their help and assistance in ensuring the success of the symposium.

Enjoy the symposium!

*Jing Liu, Joanne Krief, Marina Klein, Ciro Piccirillo, Don Vinh, Brian Ward, Madhu Pai, Marcel Behr and Erwin Schurr*

# *From Molecules to Patients to Policies Symposium*

Friday October 20, 2017

Atrium and Amphitheater of the RI-MUHC, 1001 Boul Decarie

| Time | Speaker | Affiliation | Presentation or Activity |
|---|---|---|---|
| 2:30 pm to 3:00 pm | All | All | Registration & Networking |
| 3:00 pm | Marcel Behr<br><br>Bruce Mazer | Associate Leader<br>IDIGH Program, RI-MUHC<br>Professor, McGill University<br><br>Executive Director & CSO (Interim)<br>RI-MUHC | Welcome and Introductory Remarks |
| 3:05 pm | Steven Holland | Director, Division of Intramural Research<br>NIAID, NIH | Immunodeficiency, Immune Dysregulation, and Immunotherapy: The I's Have It |
| 3:40 pm | Chris Beyrer | Desmond M. Tutu Professor of Public Health & Human Rights<br>Associate Director, JHU Center for AIDS Research<br>Immediate Past President<br>International AIDS Society<br>Professor, Johns Hopkins | HIV Interventions for Key Populations: the Challenges Ahead |
| 4:15 pm | All | All | Coffee Break |
| 4:45 pm | Megan Sykes | Michael J. Friedlander Professor of Medicine<br>Director, Columbia Center for Translational Immunology<br>Director of Research, Transplant Initiative<br>Columbia University | A New Window into the Human Alloresponse |
| 5:20 pm | Gaston De Serres<br><br>&<br><br>Danuta Skowronski | Medical Epidemiologist<br>Quebec National Institute of Public Health<br>Professor, CRCHU/Laval Université<br><br>Epidemiology Lead, Influenza and Emerging Respiratory Pathogens<br>Clinical Professor, BC Centre for Disease Control | Integrated Viral Genomic and Epidemiologic Evaluation of Suboptimal Influenza Vaccine Effectiveness |
| 6:10 pm | Erwin Schurr | Leader, IDIGH Program, RI-MUHC<br>Professor, McGill University | Closing Remarks and Door Prizes from VWR, Fisher & iPad mini 4 from BioLegend |
| 6:15 pm - | All | All | Wine & Cheese |

# Thank You to Our Sponsors/Partners

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# *Bio-sketches of the Symposium Speakers*

Dr. Megan Sykes is the Michael J. Friedlander Professor of Medicine and Professor of Microbiology & Immunology and Surgical Sciences (in Surgery), Columbia University. She is Director of the Columbia Center for Translational Immunology, Director of Research for the Transplant Initiative and Director of Bone Marrow Transplantation Research at Columbia University Medical Center. Dr. Sykes' research career, during which she has published >410 papers and book chapters, has focused on hematopoietic cell transplantation, organ allograft tolerance induction, xenotransplantation tolerance and Type 1 diabetes. She has developed novel strategies for achieving GVL effects without GVHD following hematopoietic cell transplantation (HCT). One such approach provided safety and efficacy data in clinical trials of non-myeloablative haploidentical HCT that permitted of the use of HCT for the intentional achievement of organ allograft tolerance in humans. Dr. Sykes dissected mechanisms and pioneered minimal conditioning approaches for using HCT to achieve allograft and xenograft tolerance. She devised an approach to identifying and tracking the alloreactive T cell receptor repertoire in human transplant recipients. Her work on xenogeneic thymic transplantation for tolerance induction permitted long-term kidney xenograft survival in non-human primates. She has extended the HCT approach to the problem of reversing autoimmunity while replacing destroyed islets of Langerhans in Type 1 diabetes and developed novel "humanized mouse" models that allow personalized analysis of human immune disorders and therapies. Dr. Sykes is Past President of the International Xenotransplantation Association, past Vice President of the Transplantation Society, has repeatedly been a member of TTS Council and is a member of the National Academy of Medicine.

Dr. Chris Beyrer is the inaugural Desmond M. Tutu Professor at the Johns Hopkins Bloomberg School of Public Health in Baltimore and the founding director of the Hopkins Center for Public Health and Human Rights. He is a Professor of Epidemiology, International Health, and Health, Behavior and Society at Johns Hopkins. An infectious diseases epidemiologist by training, he serves Co-Principal Investigator of the JHU Center for AIDS Research, CFAR. He has extensive experience in conducting international collaborative research and training programs in HIV/AIDS and other infectious disease epidemiology, in infectious disease prevention research, and in health and human rights. Dr. Beyrer has done research on health and human rights concerns in the US, Thailand, Burma, China, India, South Africa, Malawi, Tanzania, Russia, Tajikistan, and Kazakhstan and is the author of over 275 scientific papers, 6 books and numerous other publications. Dr. Beyrer is immediate past president of the International AIDS Society. He was elected to membership in the National Academy of Medicine of the U.S. National Academy of Sciences in 2014.

Steven M. Holland became the Director of the Division of Intramural Research (DIR) of the National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH) in July 2016. As Director, Dr. Holland provides overall executive direction and scientific leadership for the Division's basic and clinical research activities. Prior to becoming Director, DIR, NIAID, Dr. Holland served NIAID as Chief of the Laboratory of Clinical and Infectious Diseases (LCID). Dr. Holland continues to lead a program in the LCID as chief of its Immunopathogenesis Section. Dr. Holland's research areas of special interest have included Job's syndrome (autosomal dominant STAT3 deficiency) and the genetic conditions predisposing people to mycobacterial infections. More recently, he has been interested in genetic conditions associated with severe coccidioidomycosis and acquired forms of anticytokine autoimmunity predisposing to opportunistic infections. Dr. Holland is the author of more than 500 publications and has been named an NIH Distinguished Investigator. He has received the Infectious Diseases Society of America's Walter E. Stamm Mentor Award, the American College of Physicians Award for Science, the Boyle Scientific Achievement Award of the Immune Deficiency Foundation, the American Society for Microbiology Abbott Award, the Erwin Neter Award of the Association of Medical Laboratory Immunologists, and the NIH Distinguished Clinical Teacher Award, among other awards. He received his B.A. degree from St. John's College in Annapolis, Maryland, in 1979 and his M.D. degree from the Johns Hopkins University School of Medicine in 1983. He remained at Johns Hopkins for his internal medicine residency, chief residency, and fellowship in infectious diseases. He came to NIAID in 1989 to study the molecular biology of HIV, and in 1991 moved to the Laboratory of Host Defenses, NIAID, to study phagocytes and phagocyte immunodeficiencies. In 2004, he became chief of LCID, NIAID, a position he held until his appointment as Director, DIR.

Dr Gaston De Serres obtained his PhD in Epidemiology at Laval University where he is currently full Professor of Epidemiology. Dr. De Serres is also currently Medical Epidemiologist at the Institut National de santé publique du Québec (INSPQ) where he is the Medical Chief of the Immunization Scientific Unit. He is the lead expert in charge of the influenza vaccination program and of vaccine safety issues. He is a member of the Quebec Immunization Committee since 1999 and was a member of the National Advisory Committee on Immunization (NACI) between 1997 and 2004. He is a member of the Canadian National Working Group on measles and rubella elimination. He is also a member of the Quebec Vaccine Adverse Event Surveillance Group (ESPRI) since 1996. He has published more than 200 peer-reviewed articles. Dr. De Serres co-developed the test-negative design (or TND) which is now the most widely used epidemiologic method to estimate the effectiveness of the influenza vaccine. Dr. De Serres[1] innovative contributions to infectious disease prevention and control have led to direct policy changes in Canada and abroad.

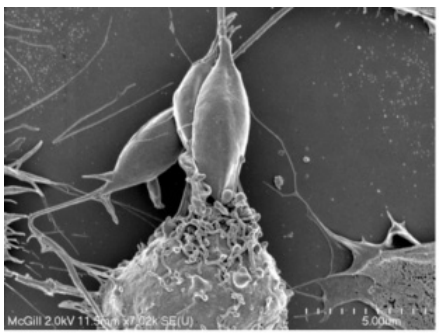
Dr. Danuta Skowronski completed her medical degree and family medicine training at Queen's University in Kingston, Ontario and completed a Master's of Health Sciences degree and a Fellowship in Community Medicine at the University of British Columbia. Since 1998 she has been Epidemiology Lead responsible for surveillance, rapid response research and policy recommendations for Influenza and Emerging Respiratory Pathogens at the BC Centre for Disease Control. She is credited with having pioneered the test-negative design (or TND), an epidemiological innovation for monitoring annual influenza vaccine effectiveness. Adopted by multiple countries worldwide, TND findings are now used each year by the WHO to inform influenza vaccine strain selection. Dr. Skowronski has more than 130 publications, primarily related to influenza. She was named by the Vancouver SUN as one of the 100 most influential women in BC and by the Georgia Straight as among the five leading women making a difference in the health of Vancouver residents.

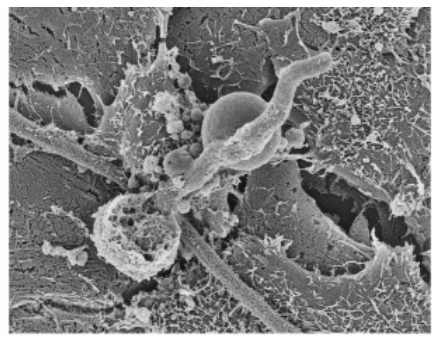
# *IDIGH Program Overview*

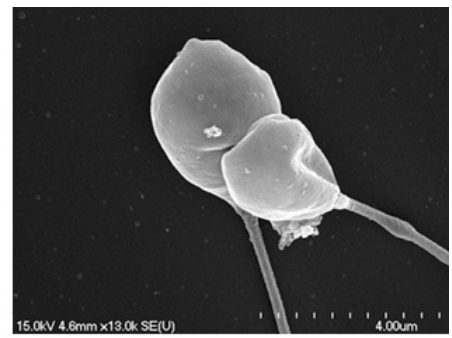
**Le programme en maladies infectieuses et immunité en santé mondiale (MIISM)** réunit l'expertise, les ressources et les points forts de la recherche en maladies infectieuses, en immunologie et en santé mondiale dans trois domaines. Il comprend 18 groupes de recherche en laboratoire au Centre de biologie translationnelle (CBT), 16 groupes ciblant les recherches évaluatives en santé et en épidémiologie au Centre de recherche évaluative en santé (CRES) et 25 groupes menant des recherches cliniques en association avec le Centre de médecine innovatrice (CMI). Le programme est conçu pour agir comme catalyseur de la recherche innovatrice et pour établir des pipelines de découvertes sur des maladies choisies. Il vise aussi à former la prochaine génération de scientifiques en recherches biomédicales, cliniques et évaluatives, et à contribuer au renforcement des capacités des pays pauvres qui sont affectés de façon disproportionnée par les maladies liées à la pauvreté (p. ex., la tuberculose, la lèpre, le virus de l'immunodéficience humaine (VIH) et les maladies tropicales négligées). L'interaction synergétique des approches méthodologiques assure que les recherches et la formation réalisées au sein du programme sont interdisciplinaires et multidisciplinaires, et ont une forte composante translationnelle.

**The Infectious Diseases and Immunity in Global Health Program (IDIGH)** unites expertise, resources and research strengths in infectious diseases, immunology and global health across three domains. It comprises 18 laboratory-based research groups at the Centre for Translational Biology (CTB), 16 groups with a focus on epidemiology and health outcomes research from the Centre for Outcomes Research and Evaluation (CORE), and 25 groups conducting clinical research associated with the Centre for Innovative Medicine (CIM). The program is designed to act as a catalyst for innovative research and establish discovery pipelines in select diseases. It also aims to train the next generation of scientists in biomedical, clinical, and health outcomes research, and to facilitate capacity-building in resource-poor countries that are disproportionately affected by diseases of poverty (for example, tuberculosis, leprosy, human immunodeficiency virus (HIV), and neglected tropical diseases). The synergistic interaction of methodological approaches ensures that research and training conducted within the program is interdisciplinary and multidisciplinary, with a strong translational focus.

For more details of our IDIGH Program, please visit our website (http://idigh.ca).







## Venue of the Event:

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

## How to get here:

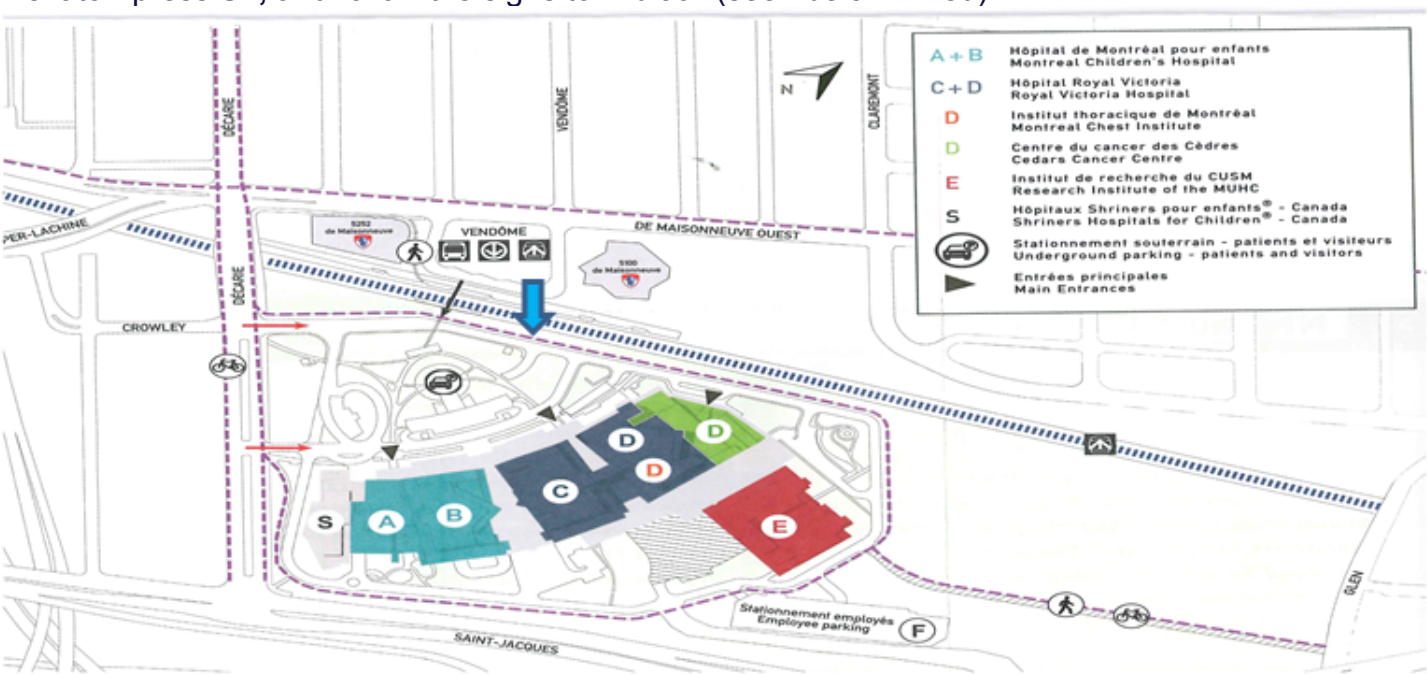
**Metro:** Vendôme station on the Orange Line is a few minutes walking distance

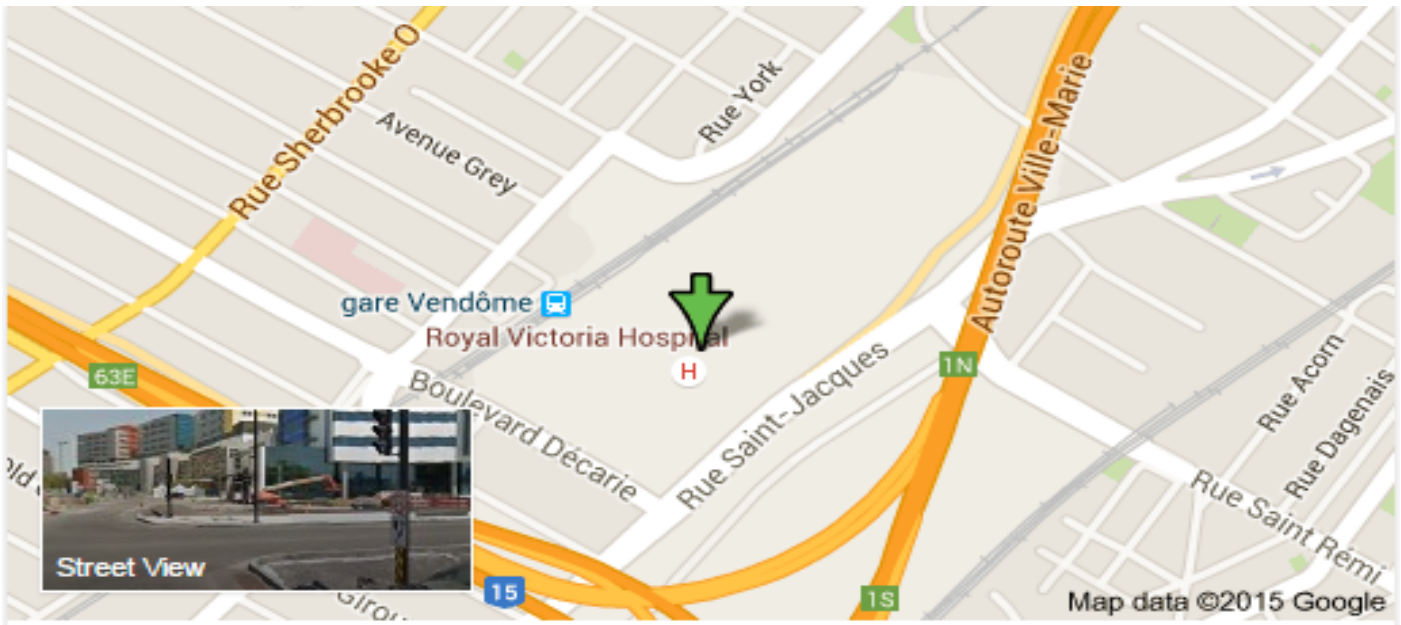
**Bus:**17, 37, 90, 102, 104, 105 and 124 stop at Vendôme station, and 78, 24 and 63 stop near the MUHC Glen site and 77 stops at the MUHC Glen site private road

**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)



# *List of Attendees*

**Ahmad** Ali
Microbiology & Immunlogy
CHU Ste-Justine/University of Montreal

**Ajua** Anthony
Medicine
RI-MUHC

**Al-Aubodah** Tho-Alfakar
Microbiology and Immunology
McGill University

**Al-Riyami** Maha
Experimental Medicine
McGill

**Allard** Marie-Julie
Neuroscience
McGill University

**Alsdurf** Hannah
Epidemiology
McGill University (RI-MUHC)

**Alshwairikh** Khaloud
McGill University and King Saud University

**Alvarez** Fernando
MIMM
McGill University

**Asbah** Nimara
microbiology
McGill University

**Ayoub** Mina
Experimental Surgery
McGill University Health Center- Research Institute

**Baistrocchi** Shane
Infectious Diseases
MUHC

**Bakadlag** Rowa
Human Genetics
McGill University

**Bandegi** Pouya
Medicine
McGill University

**Baron** Christian
ViiV Healthcare

**Bartolucci** Sabrina
Experimental Medicine
McGill University

**Beck** Eduard
London School Hygiene & Tropical Medicine

**Behr** Marcel
Department of Medicine
McGill University

**Bernard** Nicole
Medicine
RI-MUHC

**Beyrer** Chris
Epidemiology
Johns Hopkins University

**Bin Dhuban** Khalid
Microbiology and Immunology
McGill University

**Boikos** Tina
Seqirus

**Bramhecha** Yogesh
Experimental Medicine
McGill University

**Brodt** Pnina
Surgery
MUHC RI

**Bruneau** Alice
Integrated Program in Neurosciences
McGill, RI-MUHC, Shriners

**Budry** Lionel
GSK

**Buggemi** Giuseppina
Grants Department
RI-MUHC

**Burelle** Chantal
CVIS-Research
RI-MUHC

**Campioli** Enrico
Medicine
McGill

**Canto Méndez** Andrea
Centro de Biología Molecular Severo Ochoa, Madrid, Spain

**Carabali** Mabel
Epidemiology
McGill University

**Cheng** Anastasia
Experimental Medicine
McGill University

**Choi** Dongsic
Biochemistry
RI-MUHC

**Chronopoulos** Julia
Experimental Medicine
McGill

**Cisneros-Franco** Mike
Integrated Program in Neuroscience
McGill University

**Cocciolillo** Sila
Division of Gastroenterology and Hepatology
McGill University

**Correa de Macedo** Wilian
Biochemistry
McGill

**Cox** Joseph
Chronic Viral Illness Service, Division of Infectious Diseases
McGill University Health Centre

**Daftary** Amrita
Eboh
Mcgill

**Dallmann Sauer** Monica
Department of Human Genetics
McGill University

**das** Sanjoy
Platform
RI-MUHC

**De Serres** Gaston
Maladies infectieuses et immunitaires
CRCHU/Laval University

**Dembele** Marieme
Experimental Medicine
McGill University

**Derderian** Seta
Experimental Medicine
McGill University

**Dery Capes** Lynn
McGill TB Centre

**Di Battista** Giovanni (John)
Medicine
McGill

**Divangahi** Maz
Medicine
The RI-MUHC and McGill University

**Domenech Rubio** Pilar
Medicine
University

**dong** george
Experimental Medicine
Mcgill University

**Downey** Jeffrey
Pathology
McGill

**Dupuy** Franck
MUHC

**Ebrahimizadeh** Walead
Experimental surgery
Research Institute-McGill University Heath Ceneter

**Elzein** Samar
Pediatrics
McGill / MUHC

**Faludi** Michael
VWR International
VWR International

**Fava** Vinicius
RI-MUGH
RI-MUHC

**Fein** Michael
mcgill university

**Feng** Shi Bo
Molecular Imaging Platform
RI-MUHC

**Fereshtehnejad** Seyed-Mohammad
Neurology and Neurosurgery
McGill University, MUHC

**Fernandes** Maria
Microbiology-Infectious Diseases and Immunology
Université Laval

**Fernandez** Maria
Surgery
RI-MUHC

**Francis** Vincent
Neuroscience and Neurosurgery
McGill University

**Garic** Dusan
Human Genetics
MUHC

**Gasparrini** Marco
Surgery
RI-MUHC

**Ghanem** Marwan
Microbiology and Immunology
McGill University

**Ghozlan** Mostafa
Experimental Medicine
McGill

**Girouard** Marie-Pier
Neuroscience
Montreal Neurological Institute, McGill

**Goldberg** Sam
McGill

**Golizeh** Makan
RI-MUHC

**Gomez Palou** Monica
Experimental Medicine
McGill University

**Grenier** Jean-Christophe
Immunology
Hopital Sainte-Justine

**Guo** Qinhua
Immunology
Mcgill University

**Gyorkos** Theresa
Epidemiology, Biostatistics and Occupational Health
McGill University and the WHO CC for Research and Training in Parasite Epidemiology and Control

**Hafiane** Anouar
Experimental Medecine
RI-MUHC

**Hamel** Lucie
RI-MUHC

**Harrison** Genelle
Human Genetics
McGIll University

**Hassan** Adam
Microbiology & Immunology
RI-MUHC

**He** Zinan
Biomedical Engineering
McGill University

**Hendin** Hilary
Microbiology and immunology
McGill University

**Hendy** Geoffrey
Medicine
MUHC-RI

**Hirukawa** Alison
Biochemistry
Goodman Cancer Center

**Hodgins** Breanna
Experimental Medicine
RI-MUHC

**Holland** Steven
Division of Intramural Research
NIAID, NIH

**Hoque** Nowrin
Microbiology & Immunology
McGill University

**Huang** Fang
RI-MUHC

**Huddart** Sophie
Epidemiology, Biostatistics and Occupational Health
McGill University

**Igbokwe** Nneoma
Experimental medicine
McGill university

**Ippoliti** Giulia
Bioengineering
McGill University

**IQBAL** ASMA
McGill-Tropical Disease Centre/NRCP
RI-MUHC

**Istomine** Roman
Microbiology and Immunology
McGill

**Iturria Medina** Yasser
Neurology and neurosurgery
McGill University

**Jacob** Kathryn
Experimental Medicine
McGill University

**Jansen** Gregor
Biochemistry
McGill

**Jilani** Arshad
Progeneca Biotech Inc.

**Jusu** Dr. Sylvester
Endocrinology
MUHC-RI

**Kant** Sanket
Ex Med
RI MUHC, McGill Uni.

**KARATZAS** COSTAS
THE RESEARCH INSTITUTE OF THE McGILL UNIVERSITY HEALTH CENTRE

**Kaufmann** Eva
Medicine
RI-MUHC, McGill University

**Kaur** Navaldeep
SPOT McGill
McGill University

**khair** mostafa
Medecine
McGill

**Khalafalla Saber** Ahmed
Otolaryngology
McGill University

**Khan** Nargis
Meakins Christie Laboratories, McGill

**Khoja** Zehra
Surgery and Neuroscience
RI MUHC

**Kiani** Zahra
Experimental Medicine
McGill

**King** Irah
Micro/Immuno
McGill University

**Klein** Marina
Medicine
MUHC RI

**Kligman** Ryan
BBME
McGill

**Klimova** Natalia
Experimental medicine
McGill MUHC

**Konefal** Sarah
Neuroscience
McGill University

**Krahn** Andrea
IPN
McGill

**Krief** Joanne
RI-MUHC

**Kronfli** Nadine
Infectious Diseases
McGill University

**Langlais** David
Biochemistry, MRCCT
McGill University

**Le Mauff** Francois
MIMM
McGill

**Lemieux** Maxime
Exmed
Mcgill

**Lemire** Martine
Immunology
Montreal General Hospital

**li** lei
immunology
McGill

**Li** Xinfang
Urology
Mcgill

**Li** Yue
microbiology and immunology
University of Mcgill

**Lira** Alonso
Microbiology and Immunology
McGill University

**Liu** Jing
VP-RI
McGill Univeristy

**Lora** Maximilien
Research Institute, MUHC

**Mabanga** Tara
EXPERIMENTAL MEDICINE
RI-MUHC

**MacLean** Emily
Epidemiology, Biostatistics, and Occupational Health
McGill University

**Mahimkar** Rohan
Biotechnology
McGill University

**Maier** Mirela
Experimental Medicine
McGill RI-MUHC

**Mancini** Chloe
Occupational Therapy
McGill

**Mansi** James
Seqirus

**Marliss** Errol
Medicine
McGill

**MASON** HELEN
MICROBIOLOGY AND IMMUNOLGY
MCGILL UNIVERSITY

**Masror** Hamidreza
McGill student in Experimental Surgery

**Massicotte** Angie
RESEARCH INSTITUTE OF THE MUHC

**Mazer** Bruce
Child Health Research
The RI-MUHC and McGill University

**McCusker** christine
Pediatrics
MUHCRI

**McIntosh** Fiona
IDIGH
RIMUHC

**McKenzie** Marcia
Ex Med
RIMUHC

**Mehraj** Vikram
Medicine
RI-MUHC

**Mendonca** Laura
Microbiology & Immunology
McGill

**Mendonca** Laura
Microbiology & Immunology
McGill University

**Messier-Peet** Marc
Epidemiology / Public Health
Direction de Santé Publique de Montréal / Engage-Montreal

**Moarbes** Vanessa
experimental medicine
MUHC

**Morley** Karen
Biotech
BioLegend

**Mouland** Andrew
Medicine
LDI/JGH, McGill

**Munir** Aqsa
Experimental Medicine
McGill University

**Murawski** Inga
Research Institute of the McGill University Health Centre

**Naderi** Nadia
Experimental medicine
Mcgill, RIMUHC

**Najjar** Maryam
MCGILL

**Nakhle** Gisele
Experimental Surgery
McGill University

**Nassima** Fodil
Biochemistry
McGill University

**NATH-CHOWDHURY** MILLI
Parasitology
Research Institute of the MUHC

**Ndao** Momar
Medicine
McGill University

**Negi** Sarita
Surgery
RIMUHC

**Ngo** Brittany
McGill University

**Nguyen** Albert
Academic

**Nikbakht** Hamid
Human Genetics
McGill University

**Nikolajev** Ljiljana
Orthopaedics
MUHC

**Nikpoor** Naghmeh
Human Genetics
McGill University

**Nunes Rosa** Marcela
Drug Development
Barretos Cancer Hospital

**O'Flaherty** Cristian
Surgery
Research Institute-MUHC

**Olivier** Martin
Medicine
The Research Institute of the McGill University Health Centre

**orfi** zakaria
Experimental medicine
McGill

**Orlova** Marianna
RI-MUHC

**Osikowicz** Maria
CVIS
McGill University Health Centre

**Ostapska** Hanna
Microbiology and Immunology
McGill University

**Panariti** Alice
medicine
McGill University

**Papenburg** Jesse
Pediatrics
McGill University

**Paraskevas** Steven
Surgery
MUHC

**Patel** Aakash
Experimental Medicine
RI-MUHC

**PATEL** HETABEN
EXPRIMENTAL MEDICINE
MUHC

**Peiris** Hansi
McGill University

**Perera** Dilhan
Microbiology & Immunology
RI-MUHC

**Pernet** Erwan
Medicine
RI-MUHC

**Pessina** Katarina
EXMD
McGill

**Petteruti** Lina
Contracts Office, RI-MUHC

**Piccirillo** Ciro
MIMM
MCGILL

**Pineda** Rhyan
CVIS
Research Institute Of The McGill University Health Centre

**Polyak** Maria
Biochemistry
McGill University

**Ponte** Rosalie
Exp Med
Research Institute of the McGill University Health Centre

**Provost** Mélanie
Medical, Virology
Merck

**Qureshi** Salman
Medicine
McGill

**Radzioch** Danuta
Medicine
McGill University

**Ramendra** Rayoun
Microbiology and Immunology
McGill

**Randolph** Haley
Biochemistry
Universite de Montreal

**Rasooli zadeh** Asieh
MUHC

**Rauch** Joyce
Medicine
McGill

**Reed** Michael
Medicine
RI-MUHC & McGill University

**Restori** Katherine
Experimental Medicine
RI-MUHC

**Roodman** Victoria
Experimental medicine
McGill

**Roussel** Lucie
RI-MUHC

**Routy** Jean-Pierre
Medicine
RI-MUHC

**Rupp** Martin
Medicine
RI-MUHC

**Ryan** Aimee
Human Genetics
McGill University

**Saeed** Sahar
Epidemiology
McGill

**Salem** David
Microbiology & Immunology
McGill University

**Sanchez** Patricia
RI MUHC Grants Division
RI MUHC

**Sapir-Pichhadze** Ruth
Medicine
McGill University

**Sarah** Danchuk
Microbiology and Immunology
McGill University

**Scarlata villegas** Eleonora
Urology
RI-MUHC

**Schurr** Erwin
Medicine
McGill

**Schwartzman** Kevin
Medicine
McGill

**Shahinian** Serge
IP
GGD

**Shan** Jichuan
Meakins-Christie Laboratories
RI-MUHC

**Shao** Xiaojian
Human Genetics
McGill University

**Shao** Qin
Department of Pathology
McGil University Health Centre Research Institute

**Shapiro** Janna
Microbiology & Immunology
McGill

**SHENG** KAI
McGill University

**Sheppard** Don
medicine
McGill University

**Simon** Leora
Department of Medicine
RI-MUHC/McGill

**Sindeaux** Renata
Biochemistry
Université de Montréal

**Skowronski** Danuta
Medicine
BC Centre for Disease Control

**SMITH** H
biochem
Mcgill

**Snarr** Brendan
MIMM
McGill

**Songane** Mario
Medicine
McGill University

**Sowmithran** Arthi
Public health
McGill Alumna

**St-Denis** Anik
Hôpital Ste-Justine

**Stephane** Dion
Medical Affairs
Pfizer Vaccines

**Stewart** James
Experimental Medicine
McGill University

**Sullivan** Jaryd
Microbiology & Immunology
McGill

**Sykes** Megan
Medicine
Columbia University

**Taketo** Teruko
Urology Research
RI-MUHC

**Tastet** Olivier
Bioinformatics
University of Montreal

**Tsoukas** Chris
Allergy and Clinical Immunology
Research Institute, MUHC

**Vidal** Silvia
Human Genetics
McGill Life Sciences Complex

**Vinh** Don
Medicine
RI-MUHC

**Vojicic** Jelena
Pfizer Canada Inc.

**Wang** David
Human Genetics
Mcgill

**Wang** Yanran
Experimental Medicine
McGill University

**Ward** Brian
Medicine
The RI-MUHC and McGill University

**Winter** Kaitlin
Microbiology and Immunology
McGill University

**Wong** Francis
Physiology
McGill

**Xing** Li
Infectious Disease
RI-MUHC

**Xu** Yong Zhong
Human Genetics
McGill

**Xu** Guoyue
Human Genetics
McGill Univeristy

**Xu** Eric Hongbo
Neuroscience
McGill University

**Yan** Yifei
Biochemistry
University of Montreal

**Yang** Yujian Harry
Microbiology and Immunology
RI-MUHC

**Yazdani** Armin
Neuroscience
McGill

**Yotova** Vania
HSJ, UdeM

**Youssef** Mina
Human Genetics
McGill University

**Yurchenko** Ekaterina
Research Institute of MUHC

**Zacharias** Caitlin
Microbiology and immunology
McGill University

**Zaharatos** Gerasimos J.
Infectious Disease & Medical Microbiology
Jewish General Hospital/Lady Davis Institute

**Zhang** Hualin
Microbiology and Immunology
McGill University

**Zhang** Wenwei
Microbiology and Immunology
McGill University

**Zhang** Rui
experimental medicine
McGill University

**Zhang** Huairong
endocrinology
MUHC

**Zheng** Huaien
Internal Medicine
Research Institute of MUHC