



2019 MCGILL DEPARTMENT OF MEDICINE RESEARCH SYMPOSIUM

Wednesday, April 24, 2019

10h25-17h00

McGill University New Residence Hall, 3625 Parc Avenue

**** REGISTRATION – 10h00 ****

BUFFET LUNCH – 12H00

10h25-10h30	James Martin, MD DSc Physician-in-Chief, McGill University Health Centre Chair, Department of Medicine, McGill University Harry Webster Thorp Professor of Medicine	<i>Introductory Remarks</i>
10h30-10h50	Marcel A. Behr, MD MSc FRCPC Professor, Department of Medicine Associate member in the Departments of Epidemiology and Biostatistics and Microbiology and Immunology, McGill University	<i>Tuberculin, Mycobacteria and Cell-Mediated Immunity</i>
10h50-11h10	Marta Kaminska, MD Associate Professor, Department of Medicine, McGill University	<i>Parkinson's Disease & Sleep-disordered Breathing: The Bedtime Story in Search of a Happy Ending</i>

KEYNOTE SPEAKER 11h10-12h00	Joëlle Pineau, PhD Associate Professor, Department of Computer Science, McGill University Head of Facebook's AI Research Lab <i>The Transformative Power of Artificial Intelligence</i>	
LUNCH/POSTER PRESENTATIONS 12H00-13H30	LUNCH BREAK POSTER BOARD PRESENTATIONS IN BALLROOM B	
13H30-13H50	Maziar Divangahi, PhD Associate Professor, Department of Medicine Associate Member in the Department of Microbiology and Immunology, McGill University	<i>Reprogramming Stem Cells for Vaccine Development</i>
13h50-14h10	Ariane Marelli, MD MPH Professor, Department of Medicine, McGill University	<i>Congenital Heart Disease in Adults- Can we Change Outcomes?</i>
14h10-14h30	Natalie Dayan, MD Assistant Professor, Department of Medicine, McGill University	<i>A Window of Opportunity: Fertility, Pregnancy, and Women's Long- Term Health</i>
14h30-14h50	Anne Gatignol, PhD Professor, Department of Medicine, McGill University and Associate Member, Microbiology and Immunology	<i>Antiviral Gene Therapy Against the Human Immunodeficiency Virus Infection: Advances and Perspectives</i>
14h50-15h10	Andrew Karaplis, MD Professor, Department of Medicine, McGill University	<i>ER Stress and the Unfolded Protein Response in Health and Disease</i>
15h10-15h30	Susan Kahn, MD MSc FRCPC Professor, Department of Medicine, McGill University	<i>Two High Impact Trials That Have Influenced Venous Thrombosis Management</i>
15h30-16h10	COFFEE BREAK	

15h50-16h10	François Mercier, MD PhD Assistant Professor, Department of Medicine, McGill University	<i>Tracking of Clonal Evolution in Acute Myeloid Leukemia Using Single-Cell RNA Sequencing</i>
KEYNOTE SPEAKER 16H10-17H00	Dan Roden, MD Professor, Department of Medicine (Clinical Pharmacology and Cardiovascular Medicine) and Pharmacology, Vanderbilt University School of Medicine <i>Enabling New Discovery and Implementation Science Using Large Biobanks</i>	
17h00	Ernesto L. Schiffrin, CM, MD, PhD, FRSC, FRCPC, FACP Physician-in-Chief, Department of Medicine, Jewish General Hospital Canada Research Chair in Vascular and Hypertension Research Lady Davis Institute for Medical Research Professor and Vice-Chair for Research, Department of Medicine, McGill University	<i>Closing Remarks</i>

Poster Presentations

Examining the Impacts of Patient Biological Sex on the Diagnosis of Idiopathic Pulmonary Fibrosis

Deborah Assayag¹, Julie Morisset², Kerri A Johansson³, Athol U Wells⁴, Simon LF Walsh⁵

1. Division of Respiratory Medicine, Department of Medicine, McGill University, Montreal, Quebec, Canada
2. Department of Medicine, University of Montréal, Montreal, Quebec, Canada
3. Department of Medicine, University of Calgary, Calgary, Alberta, Canada
4. Royal Brompton and Harefield Foundation Trust, Chelsea, London SW3 6NP, United Kingdom.
5. Fibrosis Research Group, National Heart and Lung Institute, Imperial College, London SW3 6LY, United Kingdom

The Cost of Multidrug-Resistant Tuberculosis in Canada

Campbell JR,¹ Nsengiyumva P,¹ Chiang L,² Khadawardi H,³ Oxlade O,¹ Rasberry H,¹ Rea E,⁴ Romanowski K,² Sabur N,³ Sander B,⁴ Uppal A,¹ Brode S,^{3,4} Johnston JC,^{2,5} Schwartzman K^{1,6}

¹McGill International TB Centre, Montreal, QC; ²British Columbia Centre for Disease Control, Vancouver, BC; ³West Park Healthcare Centre, Toronto, ON;

⁴University of Toronto, Toronto, ON; ⁵University of British Columbia, Vancouver, BC; ⁶Montreal Chest Institute, Montreal QC

Cannabis and Hemp Seeds Allergy

Salma Alkhamash MD, Harmony Tsui, BSc, MD, David M.P. Thomson, PhD, MD

A Case of Familial Cold Autoinflammatory Syndrome type 2 with NLRP12 mutation

Abeer Feteih¹, Reza Alizadehfar¹

¹Division of Clinical Immunology & Allergy, Department of Medicine, McGill University, Montreal, Quebec, Canada

Prevalence and associated factors of non-alcoholic fatty liver in women with polycystic ovary syndrome: A Prospective study (FLIPCOS) and a systematic review

Mohamed Shengir¹, Srinivasan Krishnamurthy², Peter Ghali³, Marc Deschenes³, Philip Wong³, Elena Guadagno⁴, Tianyan Chen³, Giada Sebastiani³

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⁴Division of Pediatric General and Thoracic Surgery, McGill University Health Centre, Montreal.

Surgery and hospitalizations rates in Inflammatory Bowel Disease patients in the Québec provincial database from 1996 - 2015

Verdon, C.¹; Reinglas, J.¹; Coulombe, J.²; Gonczi L³; Bessissow, T.¹; Afif, W.¹; Vutcovici, M.¹; Wild, G.¹; Seidman, E.¹; Bitton, A.¹; Brassard, P.^{2,4,5}; Lakatos, PL^{1,3}.

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Feasibility Study on the Impact of Patient Reported Outcomes on Clinical Management and Patient Satisfaction

M. Tajdin¹, A. Bessissow^{1,2}, SN. Morin^{1,2}

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Implications of HuR in Idiopathic Pulmonary Fibrosis

Joshua Trivlidis¹, Parameswaran Nair², David H. Eidelman¹, Ilan Azuelos¹, Carolyn J. Baglole¹

¹McGill University ²McMaster University

Perioperative Glucose Control in Patients with Diabetes Undergoing Bariatric Surgery

Jessica Marciano M.D., Michele Zaman MSc(c), Wen Hu M.D.

Resistance training but not leucine can reverse frailty by increasing basal muscle protein synthesis in older women consuming optimized protein intake

Kathryn Jacob, MSc; Vita Sonjak, MSc; Guy Hajj, MSc; Stephanie Chevalier, PhD, RD; Marie Lamarche; José A. Morais, MD

Whole genome and RNA sequencing in patients with methylmalonic aciduria of unknown cause

¹Lina Sobhi Abdrabo, ^{1,2}David Watkins, ¹Sophie Ran Wang, ¹Joël Lafond-Lapalme, ^{1,2}Jean-Baptiste Riviere, ^{1,2,3}David S Rosenblatt

¹Department of Human Genetics, McGill University, Montreal, Quebec, Canada, Divisions of ²Medical Genetics and ³Medical Biochemistry, Department of Specialized Medicine, McGill University Health Centre

Investigating the prevalence of zoonotic TB in Vellore, India

Duffy S^{1,2,3}, Srinivasan S⁴, Danchuk, S^{1,2,3}, Michael JS⁵, Kapur V^{4,6}, Behr M^{1,2,3,7}

¹Department of Microbiology and Immunology, McGill University Health Centre, ²McGill International TB Centre, McGill University, ³Infectious Diseases and Global Health Program, McGill University Health Centre, ⁴Department of Animal Science, The Pennsylvania State University, ⁵Department of Clinical Microbiology, Christian Medical College, ⁶Huck Institutes of Life Sciences, The Pennsylvania State University, ⁷Department of Medicine, McGill University

TXNIP SIGNALS THROUGH THE GAPDH-SIAH1 PATHWAY IN DIABETIC KIDNEY DISEASE

[LEXY, ZHONG (1,2,3)], [LING, XIA (1,2)], [GEORGE, FANTUS (1,2,3)]

1. [GLEN SITE, MCGILL UNIVERSITY HEALTH CENTRE (MUHC)]
2. [MEDICINE, MCGILL UNIVERSITY]
3. [MEDICINE, UNIVERSITY OF TORONTO]

Bone Marrow Macrophage Precursors of Duchenne Muscular Dystrophy (mdx)

Mice Are Differentially “Educated” Based on Muscle Disease Stage

Salyan Bhattarai, Feng Liang, Qian Li, Eva Kaufman, Maziar Divangahi, Basil J Petrof

Meakins-Christie Laboratories and Translational Research in Respiratory Diseases Program, Research Institute of the McGill University Health Center, Montreal, Quebec, Canada

Adherence to guidelines in the treatment of patients with diabetic ketoacidosis: A quality assurance retrospective chart review

Dr. Francisca Lambert-Fliszar (resident)

Dr. Wen Hu (attending, endocrinology)

Severe perioperative anaphylaxis caused by Patent Blue Dye injection for sentinel lymph node mapping: a report of two cases

Walaa Almasri MD^{1*}, Peter Maliha MD², Gilbert Matte, B Pharm PhD¹, Michael Fein MD¹

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² Department of Nuclear Medicine, McGill University, Montreal, Quebec, H3G 1A4, Canada

Retinitis Pigmentosa and Skeletal Abnormalities Underlying Overlooked Genetic Disorders

Mehdi Yeganeh¹, Laurence Baret¹, Robert Koenekoop², Daniela Buhas¹

1- Division of Medical Genetics, Department of Specialized Medicine, McGill University Health Center, Montreal, Quebec, Canada.

2- Department of Paediatric Surgery, Human Genetics, Ophthalmology and McGill Ocular Genetics Laboratory, McGill University Health Center Research Institute, Montreal, Quebec, Canada.

MRSA colonization as a predictor of methicillin resistance in S. aureus infections: a review of cases at the MUHC, and a meta-analysis of the literature.

Guillaume Butler-Laporte, Samuel De L'Étoile-Morel, Matthew P. Cheng, Emily G. McDonald, Todd C. Lee

Identifying Core Components of a Multifaceted Non-Pharmacologic Intervention for Delirium Prevention in Patients Undergoing Cardiac Surgery: A Delphi Consensus Survey

Catherine Talbot-Hamon^{1,2}, Lior Bibas³, Jose A. Morais^{1,4}, Jonathan Afilalo^{2,5}

¹Division of Geriatric Medicine, McGill University Health Center, McGill University, Montreal, Quebec, Canada ² Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, Quebec, Canada ³ Division of Cardiology, University of Toronto, Toronto, Ontario, Canada ⁴ Department of

Galectin-3 aids in neutrophil recruitment to the airways during pulmonary infection by Aspergillus fumigatus

Brendan D. Snarr¹, Guillaume St. Pierre², Benjamin Ralph¹, Mélanie Lehoux¹, Yukiko Sato¹, Rachel Corsini¹, Shane R. Baistrocchi¹, Takahiro Takazono³, Masahiko S. Satoh⁴, Sachiko Sato² and Donald C. Sheppard¹

¹Departments of Medicine, Microbiology and Immunology; Infectious Diseases in Global Health Program, Centre for Translational Biology, McGill University Health Centre. Montréal, Québec, H4A 3J1, Canada ²Department of Microbiology & Immunology, Laval University; Research Centre for Infectious Diseases, CHU de Québec, Québec City, Québec, G1V 4G2, Canada ³Department of Infectious Diseases, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan. ⁴Laboratory of DNA Damage Responses and Bioimaging, CHU de Québec, Faculty of Medicine, Laval University, Québec city, QC, Canada.

More than the sum of its parts: in vitro synergy of beta-lactam combinations against Carbapenemase producing Klebsiella pneumoniae

Alexander Lawandi^{*1}, Gleice Leite^{*2}, Matthew Cheng^{1,2,4}, Brigitte Lefebvre³, Jean Longtin³, Todd C. Lee^{1,2,4}

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4. McGill Interdisciplinary Initiative in Infection and Immunity, McGill University, Montréal, Québec, Canada

*These authors contributed equally to this paper

How labour intensive is latent TB management? Using time and motion studies to estimate labour needs for LTBI scale-up

H Alsduf¹, O Oxlade², D Menzies², and the ACT4 Trial team

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Tumor genesis syndrome: Severe hypophosphatemia associated with progression of diffuse large B-cell lymphoma

Suhaib Radi¹, Sharon Nessim²

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² Division of Nephrology, Department of Medicine, Jewish General Hospital, Montreal, QC, Canada.

The transcriptional landscape of basal cell carcinomas: novel signaling pathways and actionable targets

Philippe Lefrançois M.D., Ph.D. (1), Pingxing Xie M.D., Ph.D. (1), Scott Gunn (1), Denis Sasseville M.D., FRCPC (1), and Ivan V. Litvinov M.D., Ph.D., FRCPC (1).

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In silico analyses of the tumor microenvironment in Basal Cell Carcinoma highlight the importance of Th2 cytokine profile, tumor-associated macrophages and acquisition of mesenchymal stem cell-like phenotype in advanced and treatment-resistant tumors.

Philippe Lefrançois M.D., Ph.D., Pingxing Xie M.D., Ph.D., Scott Gunn B.Sc., Jennifer Gantchev, M.Sc., Amelia Martinez Villareal, B.Sc., Denis Sasseville M.D., FRCPC and Ivan V. Litvinov M.

Cap-independent, non-AUG mediated translation initiation mechanism controls NFE2L3 transcription factor expression during integrated stress response

James Saliba^{1,2}, Meenakshi Kannan^{1,2}, Zaynab Nouhi¹ & Volker Blank¹⁻³

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CRISPR Screen of the Interactions Between HIV-1 and the Cellular Membrane Trafficking Pathway

Kristin E. Davis^{1,2}, Chen Liang^{1,2,3}, and Andrew J. Mouland^{1,2,3}

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The cap'n'collar (CNC) basic leucine zipper (bZIP) transcription factor NfeL3 act as an oncogene in colitis-associated colorectal cancer development in mice.

Baptiste Coutaud and James Saliba, Jenny Jackson, Joo Yeoun Park & Volker Blank

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Protein Expression Levels in Patients with Methylenetetrahydrofolate dehydrogenase 1 (MTHFD1) Deficiency

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Identification of Novel Genetic Loci for Aortic Stenosis Through a Meta-Analysis of Genome-Wide Association Studies

Hao Yu Chen^{1,2}, Anna Helgadóttir³, Rebecca T. Levinson⁴, Christian Shaffer⁴, Aeron M. Small⁵, Scott M. Damrauer⁶, Andreas Martinsson⁷, Christian Dina⁸, Benjamin J. Cairns⁹, Mary Hoekstra^{1,2}, Hannah A. Burr^{1,2}, Despoina Manousaki¹⁰, Hans Markus Munter¹¹, Bengt Johansson¹², Ulf Näslund¹², Johan Ljungberg¹², Line Dufresne², Dilrini K. Ranatunga¹³, Rachel A. Whitmer¹⁴, Vilmundur Gudnason¹⁵, Christopher J. O'Donnell¹⁶, Jerome I. Rotter¹⁷, Wendy Post¹⁸, Stefan Söderberg¹², J. Brent Richards¹⁰, Robert Clarke⁹, Jean-Jacques Schott⁸, J. Gustav Smith^{7,19,20}, Daniel J. Rader²¹, Quinn S. Wells⁴, Hilma Hólm³, Mark Lathrop^{10,11}, James C. Engert^{1,2,10*}, George Thanassoulis^{1,2*}

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Mycobacterial molecular patterns work in synergy to complete Freund's adjuvant

Jean-Yves Dubé¹, Fiona McIntosh², Nimara Asbah², Damien Montamat-Sicotte², Juan Zarruk³, Samuel David³, Jérôme Nigou⁴, Marcel Behr^{5*},

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FMR1-related disorders: implications for genetic counseling

Alexa McAdam¹, Maria-Daniela D'Agostino¹, Laurence Baret¹

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Co-segregation of Neurofibromatosis type 1 (NF1) and PMS2-related Lynch syndrome (LS): implications for management.

Darya Naumova¹, Maria-Daniela D'Agostino², June Ortenberg², William D. Foulkes² and Laura Palma².

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Perioperative Glycemic Control Within 72 Hours of Cardiac Surgery: A Multidisciplinary Quality Improvement Study

Jill Pancer MD¹, Connie Patterson RN², Peter Goldberg MD³, Renzo Cecere MD⁴, Todd Lee MD⁵, Sara Meltzer MD¹, Charles Frenette MD^{2,5}

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Hypersensitivity Reactions to High Osmolality Total Parenteral Nutrition: A Case Report

Steph A. Pang, Medical Student (Year 4), McGill University, Faculty of Medicine

Shaun Eintracht, MD, Jewish General Hospital, Division of Medical Biochemistry

Jesse M. Schwartz, MD, MSc, MPH, Jewish General Hospital, Division of Allergy and Immunology

Belinda Lobo, Pdt, Jewish General Hospital, Division of Clinical Nutrition

Elizabeth MacNamara, MD, Jewish General Hospital, Division of Medical Biochemistry

Aberrant T cell responses to bacterial inhibitory signals in atopic dermatitis

V. Andrey Gimenez Rivera, Gaurav Isola, Carolyn S. Jack

Approaches to Increase Statin Eligibility Among Individuals with Premature Acute Coronary Syndromes: An Analysis of the PRAXY Cohort

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Early Mobilization Interventions in the Intensive Care Unit: Ongoing and Unpublished Randomized Trials

Janane Maheswaran, MD, Jake Fromowitz, Michael Goldfarb, MD MSc

Lipoprotein(a) as a Risk Factor for Calcific Aortic Valve Disease Across Ethnicities

Mary Hoekstra, BCmp1,2, Hao Yu Chen, MSc1,2, Line Dufresne, MSc2, George Thanassoulis, MD1,2*, James C. Engert, PhD1,2,3*

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HIV-1 nucleocapsid protein induces liquid-liquid phase separated condensates towards viral genomic RNA trafficking

Anne Monette, Meijuan Niu, Shringar Rao, Andrew J. Mouland

Departments of Medicine, McGill University and Lady Davis Institute at the Jewish General Hospital, Montréal, Québec, Canada.

Characterizing the role of PGE2 in the Adaptive Response to Chlorine-induced Airway Injury in the Mouse

Emily Nakada¹, Toby McGovern¹, Utako Fujii¹, Yumiko Ishii¹, William S Powell¹, James G Martin¹

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Identification of Mutations in Alpha1-Antitrypsin (A1AT) by High Resolution Melting.

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Identifying the Genetic Determinants of Spontaneous Coronary Artery Dissection with Whole Exome Sequencing

Hannah A. Burr^{*1,2}, Louise Pilote^{2,3}, Asim Cheema⁴, Line Dufresne², Hao Yu Chen^{1,2}, George Thanassoulis^{†1,2}, James C. Engert^{†1,2}

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