

5th Annual Canadian Neurometabolic Club Meeting

Satellite of the Canadian Association for Neuroscience meeting



May 27-28, 2017

Montreal – Hotel Bonaventure



CAN-ACN

CANADIAN ASSOCIATION FOR NEUROSCIENCE
ASSOCIATION CANADIENNE DES NEUROSCIENCES

We are grateful for educational grants from

The Lilly logo is written in a red, cursive script font.The Shire logo features a blue stylized 'S' icon followed by the word 'Shire' in a bold, blue, sans-serif font.

Organizers:

Maia Kokoeva
Thierry Alquier
Stephanie Fulton
Claire-Dominique Walker
Alfonso Abizaid

PROGRAM AT A GLANCE

Saturday, May 27 *Hotel Bonaventure*

5:00 – 6:00 Badge pick-up
6:00 – 7:00 **KEYNOTE LECTURE**
7:30 – Dinner, drinks and entertainment at the Forum Montreal

Sunday, May 28 *Hotel Bonaventure*

8:30 – 10:10AM **Session I: NEUROBEHAVIORAL CONTROLS OF PALATABILITY AND HYPERPHAGIA**
10:10 – 10:30AM Coffee break
10:30 – 12:10PM **Session II: HYPOTHALAMIC ADAPTATIONS TO DIET AND OBESITY**
12:10 – 12:30pm **POSTER PITCH**
12:30 – 2:10 PM Buffet lunch and posters
2:10 – 3:50PM **Session III: GUT-BRAIN AXIS & DISEASE MODELS**
3:50 – 4:00 PM Concluding remarks and prize announcements

VENUE: HOTEL BONAVENTURE - 900 de la Gauchetière W. Montréal, QC H5A 1E4

SATURDAY, MAY 27 -

5:00 – 6:00PM Badge pick-up and presentation drop-off

6:00 – 7:00PM **Keynote lecture: Harvey Grill, PhD**

Professor of Psychology, University of Pennsylvania
Obesity Unit Director of the Penn Institute for Diabetes, Obesity and Metabolism

***"Treating the hyperphagia driving obesity:
Focus on feeding inhibition"***

7:30PM -- Social, food & entertainment at the **Forum Sports Bar**
4th floor of the Montreal Forum - 2313 St-Catherine St. West H3H 1N2

SUNDAY, MAY 28 - TRAINEE PRESENTATIONS

8:30 AM – ORAL SESSION I

NEUROBEHAVIORAL CONTROLS OF PALATABILITY AND HYPERPHAGIA

1. BMI-BRAIN STRUCTURE ASSOCIATIONS ARE LARGELY GENETIC AND PARTLY MEDIATED BY COGNITIVE ABILITIES AND PERSONALITY TRAITS.

Uku Vainik ^{*1,2}, Travis Baker ³, Andréanne Michaud ¹, Bratislav Mistic ¹, Mahsa Dadar ¹, Yashar Zeighami ¹, José C. García Alanis ⁴, Yu Zhang ¹, D. Louis Collins ¹, Alain Dagher¹

1. Montreal Neurological Institute, McGill University. 2. Institute of Psychology, University of Tartu. 3. Rutgers University. 4. Department of Psychology, Philipps-Universität Marburg

2. ROLE OF CENTRAL GPR120 IN ENERGY BALANCE, ANXIO-DEPRESSIVE BEHAVIOR AND NEUROINFLAMMATION

Geneviève Demers*, Alexandre Fisette, Khalil Bouyakdan, Demetra Rodaros, Jérôme Roy, Nathalie Arbour, Thierry Alquier, and Stephanie Fulton.

CHUM Research Center and Montreal Diabetes Research Center. Department of Nutrition, Biochemistry and Molecular Medicine, Faculty of Medicine, University of Montreal.

3. INVESTIGATING THE ROLE OF GHRELIN IN THE ANTICIPATION OF SCHEDULED TREAT

Rim Khazall*, Harry MacKay, Fatema Khazall, Lindsay Hyland, Alfonso Abizaid
Carleton University

4. STRANGER DANGER! GHRELIN RECEPTOR SIGNALLING IN THE VTA AND ITS ROLE IN SOCIAL APPROACH AND SOCIAL INTERACTION.

Park, S.1*, King, S.1, De Sante, S.1, Culka, G.2, Parodi, G.1, Hyland, L.1, Khazall, R.1, Zigman, J.M.3, Woodside, B.4, Abizaid A.1, 1-Department of Neuroscience, Carleton University, Ottawa ON, Canada; 2-Department of Integrated Science, Carleton University, Ottawa ON, Canada; 3-Departments of Internal Medicine and Psychiatry, The University of Texas Southwestern Medical Center, Dallas, TX, USA. 4-Centre for the Study of Behavioral Neurobiology, Concordia University, Montreal QC, Canada;

10:10 – 10:30 COFFEE BREAK

10:30 AM – ORALSESSION II

HYPOTHALAMIC ADAPTATIONS TO DIET AND OBESITY

1. ASTROCYTE-DERIVED ACBP/DBI ACTIVATES THE HYPOTHALAMIC MELANOCORTIN PATHWAY TO REGULATE FEEDING AND ENERGY HOMEOSTASIS.

Khalil Bouyakdan^{*1}, Chloé Chrétien², Alexandre Fiset¹, Demetra Rodaros¹, Fabienne Liénard², Eric Biron³, Luc Pénicaud², Xavier Fioramonti², Thierry Alquier¹ 1- CRCHUM & Université de Montréal. 2- CSGA & Université de Bourgogne. 3- CRCHUQ & Université Laval

2. LEPTIN SENSING IN THE MEDIAN EMINENCE

Sarah Robins^{*}, Lillia Butiaeva, Xiaohong Liu, Christina Kim and Maia Kokoeva.
Metabolic Disorders and Complications, McGill University Health Center, Montreal, Canada

3. EFFECTS OF THE SATURATED FATTY ACID PALMITATE ON CELLULAR NEUROINFLAMMATION AND POMC EXPRESSION IN THE MHYPOA-POMC/GFP NEURONAL CELL MODELS

Erika K. Tse^{1*}, Denise D. Belsham^{1,2,3}
Department of 1-Physiology, 2-Medicine, and 3-Obstetrics and Gynaecology, Faculty of Medicine, University of Toronto, ON, Canada

4. THE TUBBY PROTEIN REGULATES EXPRESSION OF GENES INVOLVED IN METABOLISM AND NEURONAL FUNCTIONS

Hamza Taufique^{* 1,2}, Ryan Mui³ and Sabine P. Cordes^{1,2}

1. Department of Molecular Genetics, University of Toronto. 2. Lunenfeld-Tanenbaum Research Institute, Mount Sinai Hospital. 3. College of Osteopathic Medicine, Michigan State University

12:10 – 12:30 POSTER PITCH (30 seconds each)

12:30 – 2:10 BUFFET LUNCH AND POSTER SESSION

2:10 PM – ORAL SESSION III
GUT-BRAIN AXIS & DISEASE MODELS

1. MECHANISM OF METFORMIN ACTION IN THE UPPER SMALL INTESTINE

T. M. Zaved Waise^{1*}, Frank A. Duca^{1†}, Paige V. Bauer^{1,2}, Mozhgan Rasti¹, Christopher J. Rhodes³ & Tony K.T. Lam^{1,2,4,5}

1Toronto General Research Institute and Department of Medicine, 2Departments of Physiology, University of Toronto, 3. Kovler Diabetes Center, Department of Medicine, Section of Endocrinology, Diabetes and Metabolism, University of Chicago, Chicago, IL, USA 60637. 4. Departments of Medicine, University of Toronto. 5. Banting and Best Diabetes Centre, University of Toronto. †Current address: School of Animal and Comparative Biomedical Sciences, University of Arizona, Tucson, AZ, USA 85721.

2. NICOTINAMIDE-N-METHYLTRANSFERASE CONTROLS METABOLISM AND BEHAVIOR BY REGULATING NEURONAL AUTOPHAGY

Kathrin Schmeisser^{1*}, Alex Parker^{1,2}

¹Centre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM), 900 St-Denis Street, Montréal, Québec, Canada H2X 0A9. ²Department of Neuroscience, University of Montréal, 2960 Chemin de la Tour, Montréal, Québec, Canada H3T 1J4

3. AEROBIC GLYCOLYSIS: FOOD FOR THOUGHT OR ACHILLES HEEL FOR ALZHEIMER'S DISEASE?

Richard A. Harris, Timothy Scholl, Robert Bartha, Robert C. Cumming*
Western University, Ontario Canada

4. CHARACTERIZATION OF A NEW ANIMAL MODEL OF OBESITY AND CHRONIC LIVER DISEASE FOR THE STUDY OF HEPATIC ENCEPHALOPATHY

Ochoa-Sanchez R., Tréblay M., Clément MA, Rose C.
CRCHUM & Université de Montréal

3:50 PM - CONCLUDING REMARKS AND PRIZE ANNOUNCEMENTS

POSTERS

FEEDING: PALATABILITY & REWARD

1. METABOLIC (DE)COUPLING AND INTERACTION OF GLUCOSE AND LACTATE METABOLITES UNDER VARYING SYSTEMIC CONDITIONS.

Ms. Alexandria Béland-Millar* , Ms. Justine Courtemanche , Mr. Jeremy Larcher , Tina Yuan Prof. Claude Messier. University of Ottawa, Faculty of Social Sciences.

2. SUBJECTIVE VALUE FOR HIGH CALORIE SNACK FOODS RELATES TO WEIGHT GAIN IN THE FIRST YEAR STUDENTS

Selin Neseliler*, Kevin Larcher, Yashar Zeighami, Stephanie Scala, Alain Dagher
Montreal Neurological Institute, Montreal, Qc

3. THE STIMULATION OF THE SHELL PART OF THE NUCLEUS ACCUMBENS DECREASES SUCROSE INTAKE IN FEMALE RATS

Sandrine Chometton*, Geneviève Guèvremont, Elena Timofeeva . CRIUCPQ, Université Laval, Québec

4. STUDYING THE IMPACT OF PHYSICAL ACTIVITY ON FOOD REWARD AND ANXIETY-LIKE BEHAVIORS

Franco, A*, Jacob-Brassard, E, Décarie-Spain, L, & Fulton, S. .Université de Montréal and Centre de Recherche du CHUM

5. ANXIODEPRESSIVE-LIKE BEHAVIOURS INDUCED BY HIGH FAT FEEDING: PARTICULARITIES IN THE FEMALE MOUSE

Décarie-Spain, L, Fiset, A, **Jacob-Brassard, E***, Fiuza, D, Takla, M, Barker, P, Alquier, T & Fulton, S. Centre de recherche du CHUM, Montreal Diabetes Research Centre & Université de Montréal, Montreal, Canada

HYPOTHALAMUS & ENERGY HOMEOSTASIS

6. GLYCEMIC STATE ALTERS ADROPIN RESPONSIVENESS OF RAT PARAVENTRICULAR NUCLEUS NEURONS.

Spencer P. Loewen* & Alastair V. Ferguson. Department of Biomedical and Molecular Sciences, Queen's University, Kingston, ON, Canada

7. ANTIPSYCHOTIC-INDUCED HYPOTHALAMIC INFLAMMATION AS A POTENTIAL MEDIATOR OF METABOLIC SIDE EFFECTS

Chantel Kowalchuk, BSc^{a, b}, Denise Belsham, PhD^{c, d}, Gary J. Remington MD, PhD, FRCPC^{a, b, e}, Margaret K. Hahn, MD, PhD, FRCPC^{a, b, e} a- Centre for Addiction and Mental Health, Toronto, Ontario, Canada. b- Institute of Medical Sciences, University of Toronto, Toronto, Ontario, Canada. c- Department of Physiology, University of Toronto, Toronto, Ontario, Canada. d- Departments of Medicine and Obstetrics and Gynecology, University of Toronto, Toronto, Ontario, Canada. e- Department of Psychiatry, University of Toronto, Toronto, Ontario, Canada

8. TNF-ALPHA EXPOSURE INDUCES NEUROINFLAMMATION AND INSULIN RESISTANCE IN A RAT-DERIVED HYPOTHALAMIC CELL MODEL

Matthew N. Clemenzi* (1), Makram E. Aljghami (1), Leigh Wellhauser (1), and Denise D. Belsham (1) Departments of Physiology, (2) Medicine and (3) Obstetrics and Gynaecology; University of Toronto, ON, Canada.

9. TIME-LAPSE IMAGING OF HYPOTHALAMIC LEPTIN RECEPTOR NEURONS IN LIVING MICE

Liliia Butiaeva*, Xiaohong Liu and Maia Kokoeva
McGill University, Department of Medicine, Division of Endocrinology and Metabolism, Montréal, Canada

10. THE EFFECTS OF RELAXIN-3 AND A SPECIFIC RXFP3 AGONIST ON FOOD INTAKE AND CIRCULATING HORMONES IN RATS

de Ávila C^{1*}, Chometton S¹, Guèvremont G¹, Calvez, J¹, Lenglos C¹, Gundlach, AL², Timofeeva E¹
1- Faculté de Médecine, Département de Psychiatrie et de Neurosciences, Centre de recherche de l'Institut universitaire de cardiologie et de pneumologie de Québec, Université Laval, Québec, QC, Canada, 2- The Florey Institute of Neuroscience and Mental Health, Parkville, VIC, Australia.

11. THE EFFECT OF BISPHENOL A AND BISPHENOL S ON HYPOTHALAMIC FEEDING-RELATED NPY/AGRP NEURONS

Neruja Loganathan*¹, Emma McIlwraith¹ and Denise D. Belsham^{1,2}.
Departments of Physiology¹, Medicine² and Obstetrics and Gynecology², Faculty of Medicine, University of Toronto, Ontario, Canada

12. REGULATION OF THE NOVEL REPRODUCTIVE PEPTIDE, PHOENIXIN, BY BISPHENOL A AND PALMITATE, BUT NOT 17B-ESTRADIOL, IN HYPOTHALAMIC CELL MODELS

Emma McIlwraith* (1), Neruja Loganathan (1), Denise D. Belsham (1,2)
(1)Departments of Physiology, (2) Medicine and (2) Obstetrics and Gynaecology, University of Toronto, Toronto, ON, Canada

13. ALTERATIONS IN NEUROINFLAMMATORY CYTOKINES IN CO-CULTURE OF HYPOTHALAMIC NEURONS AND MICROGLIA EXPOSED TO PALMITATE

Soyeon Park*, Mun Huei Kim, Jennifer A. Chalmers, Denise D. Belsham
Departments of Physiology, University of Toronto, Toronto, Ontario, Canada.

14. INVESTIGATING THE ROLE OF GHSR SIGNALING IN THE DMH AND PMV ON ENERGY HOMEOSTASIS

Lindsay Hyland*, Su-Bin Park, Alexander Edwards, Yosra Abdelaziz, Barbara Woodside, and Alfonso Abizaid. Department of Neuroscience, Carleton University, Ottawa, ON, Canada

15. THE EFFECT OF THE ENDOCRINE DISRUPTING CHEMICAL BISPHENOL A ON PRO-OPIOMELANOCORTIN, CIRCADIAN RHYTHM AND NEUROINFLAMMATORY MARKER GENE EXPRESSION IN HYPOTHALAMIC CELL MODELS

Ashkan Salehi 1(*), Denise D. Belsham 1,2,3. 1 Physiology, 2 Obstetrics and Gynaecology, 3 Medicine, University of Toronto, Toronto, ON, Canada

NEUROINFLAMMATION & DISEASE MODELS

16. ANTI-SEIZURE ACTIVITY OF ANNONA SENEGALENSIS ON THE GENETIC EPILEPSY WITH FEBRILE SEIZURE PLUS MODEL IN DROSOPHILA MELANOGASTER

Samuel Sunday Dare¹ *, Jimena Berni² Department of Anatomy, Kampala International University Western Campus, Ishaka Uganda, 2- Department of Zoology, University of Cambridge United Kingdom

17. BEYOND AMYLOID - MANIPULATING METABOLISM AS A POTENTIAL THERAPY FOR ALZHEIMER'S DISEASE

Asad Lone* and Robert C. Cumming. University of Western Ontario

18. DETERMINING THE EVOLUTIONARILY CONSERVED ROLE OF GLIAL DERIVED LACTATE IN DROSOPHILA MELANOGASTER MEMORY

Mr. Ariel Frame* , Dr. Anne Simon , Dr. Robert Cumming. Western University

19. INVESTIGATING THE PROTECTIVE EFFECTS OF MITOCHONDRIAL TARGETED TELOMERASE REVERSE TRANSCRIPTASE ON NEURONAL METABOLISM UNDER OXIDATIVE STRESS AND SENSITIVITY TO AMYLOID-BETA.

Olivia Singh*, Robert C. Cumming. Western University

20. PALINOPALLESTHESIA: A NEW SYNDROME

Neil Sondhi * , Mina Al Sayyab, Dr. Alan Hirsch
Aureus University School of Medicine

21. POMEGRANATE EXTRACTS AND DERIVATIVES SHOW NEUROPROTECTIVE EFFECTS IN SIMPLE AMYOTROPHIC LATERAL SCLEROSIS AND HUNTINGTON DISEASE MODELS

*Constantin Bretonneau^{1,2}, Audrey Labarre^{1,2}, Gilles Tossing^{1,2}, Alex Parker^{1,2}
1-CRCHUM, Université de Montréal, 2-Département de Neurosciences.

22. H₂S HYPERPOLARIZES AREA POSTREMA NEURONS TO DECREASE BLOOD PRESSURE IN RATS

Susan J. Wang*, Pauline M. Smith, Alastair V. Ferguson
Queen's University

23. GLUTAMINE SYNTHETASE IN ENDOTHELIAL CELLS OF THE BLOOD-BRAIN BARRIER: ROLE IN PREVENTING HEPATIC ENCEPHALOPATHY?

Mariana M Oliveira¹, Mélanie Tremblay¹, Christopher F Rose¹
¹Laboratory Hepato-Neuro, CRCHUM, Dept. of Medicine, Université de Montréal, Quebec

24. GPR120 ACTIVATION IN PRIMARY MICROGLIAL AND ROLE IN INFLAMMATORY RESPONSES

Jérôme Roy^{1,2,6}, Khalil Bouyakdan^{1,6}, Alexandre Fisette^{1,2,6}, Genevieve Demers^{1,6}, Demetra Rodaros^{1,2}, Stéphanie Fulton^{1,3,6} and Thierry Alquier^{1,4,6}.
1- CRCHUM and Montreal Diabetes Research Center and Departments of: 2- Neuroscience, 3- Nutrition, 4- Biochemistry and Molecular Medicine, 5- Medicine, 6- Université de Montréal, Montreal QC H3T1J4, Canada

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E-mail: info.neuroclub@gmail.com

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Participant list

Alfonso Abizaid

✉ alfonso_abizaid@carleton.ca

Laila Ahmed

✉ lailaahmed2006@hotmail.com

Thierry Alquier

✉ thierry.alquier@umontreal.ca

Rafaella Araujo Goncalves da Silva

✉ rafaella@bioqmed.ufrj.br

Nabil Asraoui

✉ nasra070@uottawa.ca

Francisco Bautista Cruz

✉ fbautis@uwo.ca

Alexandria Beland-Millar

✉ alexandria.beland.millar@gmail.com

Denise Belsham

✉ d.belsham@utoronto.ca

Marie Blanchette

✉ mblanchette@ucsd.edu

Alexandra Bodnaruc

✉ abodn049@uottawa.ca

Maude Bordeleau

✉ maude.bordeleau@mail.mcgill.ca

Stephanie Borgland

✉ s.borgland@ucalgary.ca

Khalil Bouyakdan

✉ khalil.bouyakdan@gmail.com

Constantin Bretonneau

✉ bretonneauconstantin@gmail.com

Liliia Butiaeva

✉ liliia.butiaeva@mail.mcgill.ca

Ana Carmena

✉ anacarmena3@gmail.com

Nathan Chan

✉ nath.chan@mail.utoronto.ca

Melissa Chee

✉ melissa.chee@carleton.ca

Sandrine Chometton

✉ sandrine.chometton@criucpq.ulaval.ca

Matthew Clemenzi

✉ matthew.clemenzi@mail.toronto.ca

David Comartin

✉ dcomartin@braininstitute.ca

Robert Cumming

✉ rcummin5@uwo.ca

Manel Dahmene

✉ manel.dahmene.1@ulaval.ca

Samuel Dare

✉ samuel.dare@kiu.ac.ug

Camila de Avila Dal'Bo

✉ camila.avila@criucpq.ulaval.ca

Léa Décarie-Spain

✉ lea.decarie@gmail.com

Geneviève Demers

✉ genevieve-demers@hotmail.com

Carina DiTomaso

✉ cditomaso16@ubishops.ca

Julien Dufort-Gervais

✉ julien.dufort-gervais@umontreal.ca

Ayman El-Ali

✉ ayman.el-ali@crchudequebec.ulaval.ca

Sana El Hajji

✉ elhajjisana@yahoo.com

Yasmin Fard Ghassemi

✉ yasminfghassemi@hotmail.com

Jeiran Farrahi Moghaddam

✉ jeiranfarrahi@yahoo.com

Alastair Ferguson

✉ avf@queensu.ca

Ariel Frame

✉ aframe@uwo.ca

Anna Kristyna Franco

✉ anna.franco@umontreal.ca

Mark Fry

✉ mark.fry@umanitoba.ca

Stephanie Fulton

✉ stephanie.fulton@umontreal.ca

Kendra Furber

✉ k.furber@usask.ca

Colleen Gillon

✉ colleen.gillon@mail.utoronto.ca

Revathy Guruswamy

✉ revathy.guruswamy.1@ulaval.ca

Vanessa Hadid

✉ vanessa.hadid@hotmail.com

Lydia Hannou

✉ lydia.hannou@umontreal.ca

Shantala Hari Dass

✉ shantala.haridass@mail.mcgill.ca

Matthew Hill

✉ mnhill@ucalgary.ca

Cecile Hryhorczuk

✉ cecile.hryhorczuk@gmail.com

Lindsay Hyland

✉ lindsaythompson.hyland@carleton.ca

Grace Iyirhiaro

✉ oiyir067@uottawa.ca

Elizabeth Jacob-Brassard

✉ elizabethj.b@hotmail.com

Jaymin Jeong

✉ jjeong32@uwo.ca

Xiao Jiang

✉ xiaojiang0226@gmail.com

Hetshree Joshi

✉ joshihp@mcmaster.ca

Paul Jung

✉ pjung6@uwo.ca

Mohammad Amin Kamaledin

✉ amin.kamaledin@yahoo.com

Kirusanthu Kaneshwaran

✉ kirusanthu.kaneshwaran@mail.utoronto.ca

Samantha King

✉ samantha.j.king@gmail.com

Maia Kokoeva

✉ maia.kokoeva@mcgill.ca

Chantel Kowalchuk

✉ chantel_kowalchuk@hotmail.com

Asvini Kulanayagam

✉ 12ak145@queensu.ca

Ted Weita Lai

✉ ted.weita@me.com

Tony Lam

✉ tlam@uhnresearch.ca

Flavie Laroque

✉ flavie.laroque@umontreal.ca

Samantha Lee

✉ umlee285@myumanitoba.ca

Spencer Loewen

✉ 0spl1@queensu.ca

Neruja Loganathan

✉ neruja.loganathan@mail.utoronto.ca

Mary Loka

✉ maryloka994@gmail.com

Asad Lone

✉ mlone@uwo.ca

Lu Lu

✉ llu92@uwo.ca

Laurie Martin

✉ laurie.martin@outlook.com

Dusica Maysinger

✉ dusica.maysinger@mcgill.ca

Lucía Angélica Méndez-García

✉ angelica.mendez.86@hotmail.com

Patrick McGowan

✉ patrick.mcgowan@utoronto.ca

Emma McIlwraith

✉ emma.mcilwraith@mail.utoronto.ca

Sadaf Mohtashami

✉ sadaf.mohtashami@mail.mcgill.ca

Yusuke Naito

✉ Yusuke.Naito@ircm.qc.ca

Chakravarthi Narla

✉ cnarla@robarts.ca

Selin Neseliler

✉ selin.neseliler@mail.mcgill.ca

Gaëlle Nsamba Luabeya

✉ nsambalu@my.yorku.ca

Rafael Ochoa-Sanchez

✉ rochoa.sanchez@gmail.com

Mariana Oliveira

✉ marianaoliveira39@yahoo.com.br

Christina Ou

✉ c.ou@queensu.ca

Soyeon Park

✉ soyeon.park@mail.utoronto.ca

Su-Bin Park

✉ supark@cmail.carleton.ca

Masha Prager-Khoutorsky

✉ masha.prager-khoutorsky@mcgill.ca

Pugaliya Puvendrakumaran

✉ pugaliya.p@gmail.com

Indira Riadi

✉ indira.riadi@mail.utoronto.ca

Raphaelle Riche

✉ raphaelle.riche@gmail.com

Sarah Robins

✉ sarah.robins@mail.mcgill.ca

Demetra Rodaros

✉ demetra.rodaros@crchum.qc.ca

Christopher Rose

✉ christopher.rose@umontreal.ca

Patricia Roque

✉ patricia.roque@mail.mcgill.ca

Jérôme Roy

✉ jerome.roy1902@gmail.com

Giriraj Sahu

✉ girirajsahu@gmail.com

Nadia Said

✉ s.nadia.10@hotmail.fr

Ashkan Salehi

✉ ash.salehi@mail.utoronto.ca

Kathrin Schmeisser

✉ kathrin.schmeisser@umontreal.ca

Tal Slutzki

✉ tal.slutzki@gmail.com

Bong Soo Seok

✉ bongsoo.seok@gmail.com

Lawrie Shahbazian

✉ lawrie.shahbazian@mail.mcgill.ca

Nick Simpson

✉ 12ns59@queensu.ca

Olivia Singh

✉ osingh5@uwo.ca

Mohammed Slaoui Hasnaoui

✉ m.slaoui@hotmail.ca

Ahmed Soliman

✉ ahmedo.soliman@yahoo.com

Helena Solleiro-Villavicencio

✉ helenasolleiro@gmail.com

Neil Sondhi

✉ neil.r.s892@gmail.com

Nicolas Stifani

✉ nstifani@gmail.com

Brittany Stojak

✉ bstojak99@gmail.com

Samuel Sunday

✉ samuel.dare@kiu.ac.ug

Hamza Taufique

✉ hamza.taufique@mail.utoronto.ca

Sharon Thomson

✉ thomss4@mcmaster.ca

Erika Tse

✉ erika.tse@mail.utoronto.ca

Alessandra Tuccitto

✉ alessandra.tuccitto@mail.utoronto.ca

Sonali Uttam

✉ sonali.uttam@mail.mcgill.ca

Uku Vainik

✉ ukuvainik@gmail.com

Rebecca van Ginkel

✉ rebeccavanginkel@gmail.com

Junia Vieira dos Santos

✉ junia.santos@mail.mcgill.ca

Deborah Villafranca Baughman

✉ d.viba@outlook.com

T.M Zaved Waise

✉ zwaise@gmail.com

Claire-Dominique Walker

✉ waldom@douglas.mcgill.ca

Shiwei Wang

✉ shiwei.wang@inserm.fr

Susan Wang

✉ 13sjw@queensu.ca

Anthea Wong

✉ anthea.wong.95@gmail.com

Yufeng Xie

✉ yufeng711@gmail.com

Yuhao Yan

✉ yuhao.yan@mail.mcgill.ca

Edward Zhang

✉ edward.n.zhang@mail.mcgill.ca