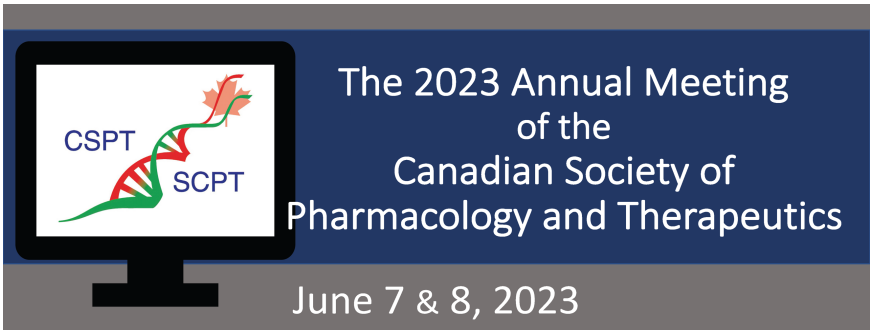

WEDNESDAY, JUNE 07, 2023

Pacific Time	Mountain Time	Central Time	Eastern Time	Atlantic Time	
8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	**Welcome Address** (Bruce Carleton, President CSPT)
8:10 AM	9:10 AM	10:10 AM	11:10 AM	12:10 AM	**Top Trainee Abstracts Oral Presentations** Moderator: Tamorah Lewis (See below for list of presenters, P. 3)
10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	**Break and Poster Viewing** (See below for list of accepted abstracts, P. 7 - 12)
11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	**Rapid Fire Presentations** Moderator: Antonios Diab (See below for list of presenters, P. 4 - 6)
1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	**Break**
2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	**Career Networking Session** Hosted by Thomas Velenosi Guest Speakers: **Hayley Price**, Senior Scientist Bioanalysis, Meadowhawk Biolabs, Hayward, California **Meagan McKenna**, Senior Research Manager, Agada Biosciences, Halifax, Nova Scotia **Mike Knauer**, Clinical Biochemist, London Health Sciences Centre, London, Ontario 4th Speaker to be announced (TBA)

THURSDAY, JUNE 08, 2023

Pacific Time	Mountain Time	Central Time	Eastern Time	Atlantic Time	
8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	**Junior Investigator Award Platform Presentation** Moderator: Dylan Burger (Presenter TBA)
8:30 AM	9:30 AM	10:30 AM	11:30 AM	12:30 AM	**Senior Investigator Award Platform Presentation** **Bruno Giros, PhD**, McGill University *Deciphering the role of D1/D2 dopamine receptors co-expressing striatal neurons in motor control using intersectional genetics*
9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	**Clinical Pharmacology Case Studies** Moderator: Bruce Carleton (Presenters TBA)

10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	**Break and Poster Viewing** (See below for list of accepted abstracts, P. 7 - 12)
11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	**Clinical Fellow and Postdoctoral Fellow Award Platform Presentations** (Presenters TBA)
11:40 AM	12:40 PM	1:40 PM	2:40 PM	3:40 PM	**Annual General Meeting**
1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	**Break**
2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	**Social: Kahoots Trivia** (Hosted by Michael Rieder)

Wednesday, June 7th – Presentation Schedule

Top Trainee Abstracts Oral Presentations (8:10 AM – 10:00 AM Pacific)

8:10 AM PT *The incorporation of single cell sequencing data to develop a polygenic risk score to predict cisplatin-induced tinnitus* – **Feryal Ladha** (Department of Biochemistry and Medical Genetics, University of Manitoba)

8:21 AM PT *The impact of glucocorticoid treatment on health-related quality of life in children with rheumatic diseases: A Scoping Review* – **Renee Pang** (Western University)

8:32 AM PT *Exploring the molecular promiscuity of L-phenylalanine (Phe) activation of G protein-coupled receptors* – **Peter Oni** (Mount Allison University)

8:43 AM PT *Activation of free fatty acid receptor 3 (FFA3) stimulates glucagon-like peptide-1 (GLP-1) release from enteroendocrine L-cells by non-canonical signaling mechanisms* – **Karly Masse** (Western University)

8:54 AM PT *The effects of NETs on endothelial health and function* – **Chloé Landry** (Ottawa Hospital Research Institute/University of Ottawa)

9:05 AM PT *Characterizing a Metabolic Phenotype Susceptible to Polyamine Pathway Targeted Treatment in Triple Negative Breast Cancer* – **Chloe White** (University of British Columbia)

9:16 AM PT *Polygenic Risk Score associated with increased risk of L-asparaginase induced hypersensitivity* – **Spencer Anderson** (University of British Columbia/BC Children's Hospital)

9:27 AM PT *Early endothelial function activation by losartan prevents aortic stiffness in a model of type 1 diabetes* – **Chris Yuen** (University of British Columbia)

9:38 AM PT *Protein kinase A mediated regulation of equilibrative nucleoside transporter subtype 2* – **Nayiar Shahid** (University of Alberta)

9:49 AM PT *Genomic Risk Factors of Vincristine-Induced Peripheral Neuropathy* – **Kheireddin Mufti** (Department of Medical Genetics, University of British Columbia/British Columbia Children's Hospital Research Institute)

Rapid Fire Presentations (11:00 AM – 1:00 PM Pacific) –

Order of presentations:

1. *Infant Poisoning in the First Year of Life: A Cohort Study of an International Toxicology Surveillance Registry* – **Justin Williamson** (Department of Paediatrics, SickKids/Departments of Paediatrics and Pharmacology and Toxicology, University of Toronto)

2. *Jadomycin B Causes Human Breast Cancer Cell Death Through Inhibition of Cyclooxygenase-2 Signalling* – **Brendan McKeown** (Dalhousie University/Beatrice Hunter Cancer Research Institute)

3. *Characterizing the mechanism of doxorubicin-mediated SAT1 induction in triple-negative breast cancer* – **Caroline Liang** (University of British Columbia)

4. *Investigating the Anticancer Properties of Anthocyanin-Rich Extracts from Aponogeton madagascariensis in Triple Negative Breast Cancer Cells* – **Shanukie Embuldeniya** (Dalhousie University)

5. *Erythropoietin single nucleotide polymorphic rs507293 correlates with dyslipidemia* – **Victoria Northrup** (Dalhousie University/IMPART Investigator Team Canada)

6. *Characterizing Opioid Overdose Deaths in Children (COODC Study)* – **Katrina Assen** (Western University)

7. *β-Arrestin recruitment and biased agonism at the M1 muscarinic receptor* – **Shayan Amiri** (Department of Pharmacology and Therapeutics, University of Manitoba/Division of Neurodegenerative Disorders, St. Boniface Hospital Albrechtsen Research Centre)

8. *Developing a Mouse Model to Study the Mechanisms of Peg-asparaginase-induced Pancreatitis* – **Esther Bonitto** (Dalhousie University)

9. *Mechanisms of Mitochondrial Calcium Uniporter (MCU) Inhibition by the Dominant-Negative Beta Subunit (MCUb)* – **Danielle Colussi** (Western University)

10. *Parameterization of Rat Liver and Kidney Scaling Factors for Improved Pharmacokinetic and Toxicokinetic Prediction* – **Michael Doerksen** (University of British Columbia)

11. *Cytoprotection by nanobioparticle drug delivery* – **Benny Habiyambere** (Dalhousie Medicine New Brunswick/Dalhousie University/IMPART Investigator Team Canada)

12. *Pharmacokinetic Characterization of a Novel Cannabidiol Analogue* – **Aaron Simkovich** (London Research and Pharmaceutical Corporation/Department of Physiology and Pharmacology, Western Univeristy)

13. *Characterization of N,N,N-Trimethyl-L-Alanyl-L-Proline betaine (TMAP) as a Candidate Biomarker of Kidney Function* – **Nicole Sidor** (Department of Physiology and Pharmacology, University of Western Ontario)

14. *Training the next generation of pharmacist immunizers on the CARD (Comfort, Ask, Relax, Distract) vaccine delivery framework* – **Victoria Gudzak** (University of Toronto)

15. *Opioids Safety in Pediatric Procedural Sedation with Ketamine and Opioids* – **Nata Cohen** (Hospital for Sick Children)

16. *Development of a polygenic score to predict cisplatin-induced ototoxicity* – **Deanne Nixie Miao** (Department of Biochemistry and Medical Genetics, University of Manitoba)

17. *Effect of nucleocapsid protein of SARS-COV-2 on endothelial inflammation* – **Mehreen Tufail** (Western University)

18. *Variation at the TLR4locusinfluences susceptibility to cisplatin-induced hearing loss in cancer patients* – **Asna Latif** (University of Alberta)

19. *The effect of chronic metformin exposure on adult zebrafish stress physiology* – **Mobeen Ramzan** (Western University)

20. *Psilocybin and Eugenol Ameliorate LPS-induced Liver Inflammation in Mice* – **Greg Robinson** (University of Lethbridge/University of Illinois Urbana-Champaign)

21. *The human MRS2 magnesium-binding domain is a regulatory feedback switch for channel activity* – **Tulsy Uthayabalan** (Western University)

22. *Metabolic Shock-Induced Yap Translocation in Cardiomyotubes as a Model of Adaptation to Cardiac Injury* – **Tori Nelson** (Dalhousie University/IMPART)

23. *Gestational Diabetes Mellitus Induces Cardiac Dysfunction and Altered Mitochondrial Protein Acetylation in the Offspring Heart* – **Caitlin Menzies** (Department of Pharmacology and Therapeutics, University of Manitoba/Diabetes Research Envisioned and Accomplished in Manitoba (DREAM) Theme)

24. *The Effect of L-Phenylalanine at Glutamate Synapses in the Rat Dorsomedial Hypothalamus* – **Diwan Minocha** (Mount Allison University)

25. *SIRT3 Deficiency in the Liver and Development of Gestational Diabetes* – **Khushali Trivedi** (Department of Pharmacology and Therapeutics, University of Manitoba/Diabetes Research Envisioned and Accomplished in Manitoba (DREAM) Theme of the Children's Hospital Institute of Manitoba)

26. *Maternal RESV Supplementation and the Effects on Mitochondrial Metabolism and Cardiac hypertrophy in Fetal Cardiomyocytes* – **Marcelo Ninalaya** (Department of Pharmacology and Therapeutics, University of Manitoba/Diabetes Research Envisioned and Accomplished in Manitoba (DREAM) Theme of the Children's Hospital Institute of Manitoba)

27. *Trick or Treat? Investigating the biological effects of sucralose signaling through GPR52 in the gut* **– SunMin Park** (Mount Allison University)

28. *A microfluidic brain-on-a-chip model for examining blood-brain barrier (BBB) response to the tumor microenvironment and approaches to enhance drug delivery to the brain* – **Stacey Line** (University of Manitoba)

2023 Accepted Abstracts and Poster Presentations –

β-Arrestin recruitment and biased agonism at the M1 muscarinic receptor

Shayan Amiri[1,2], Paul Fernyhough[1,2]
[1]Department of Pharmacology and Therapeutics, University of Manitoba, Winnipeg, Canada. [2]Division of Neurodegenerative Disorders, St Boniface Hospital Albrechtsen Research Centre, Winnipeg, Canada

A microfluidic brain-on-a-chip model for examining blood-brain barrier (BBB) response to the tumor microenvironment and approaches to enhance drug delivery to the brain

Stacey Line[1], Donald Miller[2], Magimairajan Vanan[2], Sajesh Babu[2], Teruna Siahann[3], Kelly Schwinghamer[3]
[1]University of Manitoba, Narol, Canada. [2]University of Manitoba, Winnipeg, Canada. [3]University of Kansas, Kansas, USA

Activation of free fatty acid receptor 3 (FFA3) stimulates glucagon-like peptide-1 (GLP-1) release from enteroendocrine L-cells by non-canonical signaling mechanisms

Karly E. Masse, Jackie Han, Paramveer Love, Van B. Lu
Western University, London, Canada

Alpha-lipoic acid protects against gliclazide-induced hepatotoxicity in high glucose-exposed HepG2 cells and type 2 diabetic rats

George Dugbartey[1,2], Karl Alornyo[1], Stephen Atule[1], Richard Obeng-Kyeremeh[1], Daniel Amoah[1], Samuel Adjei[1]
[1]University of Ghana, Accra, Ghana. [2]University of Western Ontario, London, Canada

Characterization of N,N,N-Trimethyl-L-Alanyl-L-Proline betaine (TMAP) as a Candidate Biomarker of Kidney Function

Nicole Sidor[1], Sophie Nie[1], Thomas Velenosi[2], Gilles Lajoie[3], Rommel Tirona[1], Bradley Urquhart[1]
[1]Department of Physiology and Pharmacology, Schulich School of Medicine and Dentistry, University of Western Ontario, London, ON, Canada. [2]Faculty of Pharmaceutical Sciences, University of British Columbia, Vancouver, BC, Canada. [3]Department of Biochemistry, University of Western Ontario, London, ON, Canada

Characterizing a Metabolic Phenotype Susceptible to Polyamine Pathway Targeted Treatment in Triple Negative Breast Cancer

Chloe White, Thomas Velenosi
University of British Columbia, Vancouver, Canada

Characterizing Opioid Overdose Deaths in Children (COODC Study)

Katrina Assen[1], Michael Wilson[2], Elizabeth Urbantke[3], Michael Rieder[1]
[1]Western University, London, Canada. [2]Office of the Chief Coroner, Thunder Bay, Canada. [3]Office of the Chief Coroner, London, Canada

Characterizing the mechanism of doxorubicin-mediated SAT1 induction in triple-negative breast cancer

Caroline Liang, Chloe White, Thomas Velenosi
The University of British Columbia, Vancouver, Canada

Cytoprotection by nanobioparticle drug delivery

Benny Habiyambere[1,2,3], Anirban Ghosh[4], Kyle Wells[1,2,3], Ashley Eadie[1,2,3], Keith Brunt[1,2,3]
[1]Dalhousie Medicine New Brunswick, Saint John, Canada. [2]Dalhousie University, Halifax, Canada. [3]IMPART Investigator Team Canada, Saint John, Canada. [4]Pividl Bioscience, Moncton, Canada

Developing a Mouse Model to Study the Mechanisms of Peg-asparaginase-induced Pancreatitis

Esther Bonitto[1], Zara Forbrigger[1,2], Ketan Kulkarni[1,2], Kerry Goralski[1,2]
[1]Dalhousie University, Halifax, Canada. [2]IWK Health Centre, Halifax, Canada

Development of a polygenic score to predict cisplatin-induced ototoxicity

Deanne Nixie Miao[1], Mackenzie Wilke[1], Feryal Ladha[1], Mary McAuley[1], Urim Iyasere[1], Britt Drogemoller[1,2,3]
[1]Department of Biochemistry and Medical Genetics, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada. [2]CancerCare Manitoba Research Institute, Winnipeg, Canada. [3]Children's Hospital Research Institute of Manitoba, Winnipeg, Canada

Dissecting the role of branched-chain amino acids and branched-chain keto acids in modulating cardiac adverse remodelling in heart failure

Qutuba Karwi[1], Liyan Zhang[1], Cory Wagg[1], Keshav Gopal[2], Golam Mezbah Uddin[1], Kim Ho[1], Qiuyu Sun[1], Sai Panidarapu[1], Kaya Persad[1], Betul Altunay[1], Shaden Deman[1], Jody Levasseur[1], John Ussher[2], Jason Dyck[1], Gary Lopaschuk[1]
[1]Cardiovascular Research Centre, University of Alberta, Edmonton, Gabon. [2]Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Canada

Early endothelial function activation by losartan prevents aortic stiffness in a model of type 1 diabetes.

Chris Yuen[1], Zoe White[1], Angela Devlin[1,2], Pascal Bernatchez[1]
[1]University of British Columbia, Vancouver, Canada. [2]BC Children's Hospital Research Centre, Vancouver, Canada

Effect of nucleocapsid protein of SARS-COV-2 on endothelial inflammation

Mehreen Tufail, Qingping Feng, Xiangru Lu, Brent Tschirhart, Stephen Barr
Western University, London, Canada

Erythropoietin single nucleotide polymorphic rs507293 correlates with dyslipidemia

Victoria Northrup[1,2], Jermey A. Simpson[3,2], Keith R. Brunt[4,2]
[1]Dalhousie Univerisity, Halifax, Canada. [2]IMPART investigator team Canada, Saint John, Canada. [3]University of Guelph, Guelph, Canada. [4]Dalhousie University, Halifax, Canada

Exploring the molecular promiscuity of L-phenylalanine (Phe) activation of G protein-coupled receptors

O. Peter Oni, Madeline E. Power, Jillian L. Rourke
Mount Allison University, Sackville, Canada

Genomic Risk Factors of Vincristine-Induced Peripheral Neuropathy

Kheireddin Mufti[1,2], Miguel Cordova[2,3], Erika Scott[1,2], Jessica Trueman[2,3], Jessica Lovnicki[2,3], Catrina Loucks[2,3,4], Shahrad Rassekh[2,5], Colin Ross[1,2,6], Bruce Carleton[1,2,3,7]
[1]Department of Medical Genetics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. [2]British Columbia Children's Hospital Research Institute, Vancouver, Canada. [3]Division of Translational Therapeutics, Department of Pediatrics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. [4]Department of Anesthesiology, Pharmacology & Therapeutics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. [5]Division of Hematology, Oncology & Bone Marrow Transplant, Department of Pediatrics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. [6]Faculty of Pharmaceutical Sciences, University of British Columbia, Vancouver, Canada. [7]Pharmaceutical Outcomes Programme, BC Children's Hospital, Vancouver, Canada

Gestational Diabetes Mellitus Induces Cardiac Dysfunction and Altered Mitochondrial Protein Acetylation in the Offspring Heart

Caitlin Menzies[1,2], Mateusz Tomczyk[1,2], Bo Xiang[1,2], Stephanie Kereliuk[1,2], Vernon Dolinsky[1,2]
[1]Department of Pharmacology and Therapeutics,University of Manitoba, Winnipeg, Canada. [2]Diabetes Research Envisioned and Accomplished in Manitoba (DREAM) Theme, Winnipeg, Canada

Infant Poisoning in the First Year of Life: A Cohort Study of an International Toxicology Surveillance Registry

Justin Williamson[1,2], Asaph Rolnitsky[3,4], Yaron Finkelstein[1,2]
[1]Department of Paediatrics, The Hospital for Sick Children, Toronto, Canada. [2]Departments of Paediatrics and Pharmacology and Toxicology, University of Toronto, Toronto, Canada. [3]Neonatal-Perinatal Medicine, Sunnybrook Health Sciences Centre, Toronto, Canada. [4]Department of Paediatrics, University of Toronto, Toronto, Canada

Investigating the Anticancer Properties of Anthocyanin-Rich Extracts from Aponogeton madagascariensis in Triple Negative Breast Cancer Cells

Shanukie Embuldeniya, Kerry Goralski, Arunika Gunawardena
Dalhousie University, Halifax, Canada

In Vitro Anti-Diabetic Activity and Mechanism of Action of Root Extract of Sansevieria liberica Gerome & Labroy (Dracaenaceae) and its Different Solvent Extracts.

Omowunmi Amao[1], Margaret Sofidiya[2], Adedunni Olusanya[1], Oluwamuyiwa Fasina[1]
[1]College of Medicine, University of Lagos, Idiaraba, Nigeria. [2]University of Lagos, Idiaraba, Nigeria

Jadomycin B Causes Human Breast Cancer Cell Death Through Inhibition of Cyclooxygenase-2 Signalling

Brendan T. McKeown[1,2], Kerry B. Goralski[1,2,3]
[1]Dalhousie University, Halifax, Canada. [2]Beatrice Hunter Cancer Research Institute, Halifax, Canada. [3]IWK Health Centre, Halifax, Canada

Maternal RESV Supplementation and the Effects on Mitochondrial Metabolism and Cardiac hypertrophy in Fetal Cardiomyocytes.

Marcelo Ninalaya[1,2], Mateusz Tomczyk[1,2], Bo Xiang[1,2], Gabriel Brawerman[1,2], Stephanie Kereliuk[1,2], Vernon Dolinsky[1,2]

[1]Diabetes Research Envisioned and Accomplished in Manitoba (DREAM) Theme of the Children's Hospital Research Institute of Manitoba, Winnipeg, Canada. [2]Department of Pharmacology and Therapeutics, Rady Faculty of Health Science, College of Medicine, University of Manitoba, Winnipeg, Canada

Mechanisms of Mitochondrial Calcium Uniporter (MCU) Inhibition by the Dominant-Negative Beta Subunit (MCUb)

Danielle M. Colussi, Ryan Grainger, Murray Junop, Peter B. Stathopulos
Western University, London, Canada

Metabolic Shock-Induced Yap Translocation in Cardiomyotubes as a Model of Adaptation to Cardiac Injury

Victoria Nelson[1,2], Lester Perez[1], Michael Connolly[1], Malav Madhu[1], Mathew Platt[3], Keith Brunt[1,2], Jeremy Simpson[3,2]
[1]Dalhousie University, Saint John, Canada. [2]IMPART, Saint John, Canada. [3]University of Guelph, Guelph, Canada

Opioids Safety in Pediatric Procedural Sedation with Ketamine and Opioids

Neta Cohen[1], Gidon Test[1], Yehonatan Pasternak[1], dana Singer Harel[1], Suzan Schneeweiss[1], savithiri ratnapalan[1], Suzanne Schuh[1], YARON Finkelstein[2]
[1]Hospital for Sick Children, Toronto, Canada. [2]Toronto, Toronto, Canada

Parameterization of Rat Liver and Kidney Scaling Factors for Improved Pharmacokinetic and Toxicokinetic Prediction

Michael Doerksen, Abby Collier
The University of British Columbia, Vancouver, Canada

Pharmacokinetic Characterization of a Novel Cannabidiol Analogue

Aaron Simkovich[1,2], Tamer Abdelghany[3,4], Aurelia Bihari[1,5], Doaa Mossaad[1], Pavan Mandapati[1], Eden Reid[2], Brad Urquhart[2], Mahmoud Moustafa[1]
[1]London Research and Pharmaceutical Corporation, London, Canada. [2]Department of Physiology and Pharmacology, Schulich School of Medicine & Dentistry, Western University, London, Canada. [3]Department of Pharmacology and Toxicology, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt. [4]Department of Pharmacology and Toxicology, Faculty of Pharmacy, Heliopolis University for Sustainable Development, Cairo, Egypt. [5]Department of Surgery, Division of Orthopaedic Surgery, Schulich School of Medicine & Dentistry, Western University, London, Canada

Pharmacokinetics of Recombinant Human Annexin A5 (SY-005) in Severe COVID-19

Brent J. Tschirhart[1,2], Xiangru Lu[1], Aristide Kognou[1], Claudio M. Martin[3,2], Douglas D. Fraser[3,2], Aleksandra Leligdowicz[3,4,5], Bradley Urquhart[6,2], Qingping Feng[1,2]
[1]Department of Physiology and Pharmacology, Schulich School of Dentistry and Medicine, Western University, London, Canada. [2]Lawson Health Research Institute, London Health Sciences Centre, London, Canada. [3]Division of Critical Care, Department of Medicine, Schulich School of Dentistry and Medicine, Western University, London, Canada. [4]Robarts Research Institute, Schulich School of Dentistry and Medicine, Western University, London, Canada. [5]Department of Microbiology and Immunology, Schulich School of Dentistry and Medicine, Western University, London, Canada. [6]University of Western Ontario, Schulich School of Medicine and Dentistry, London, Canada

Polygenic Risk Score associated with increased risk of L-asparaginase induced hypersensitivity

Spencer Anderson[1,2], Erika Scott[1,2], Catrina Loucks[2,1], Rod Rassekh[1,2], Colin Ross[1,2], Bruce Carleton[1,2]
[1]University of British Columbia, Vancouver, Canada. [2]BC Children's Hospital, Vancouver, Canada

Protein kinase A mediated regulation of equilibrative nucleoside transporter subtype 2

Nayiar Shahid[1], James Hammond[2]
[1]University of Alberta, Edmonton, Canada. [2]Edmonton, Edmonton, Canada

Psilocybin and Eugenol Ameliorate LPS-induced Liver Inflammation in Mice

Gregory Robinson
University of Lethbridge, Lethbridge, Canada. University of Illinois Urbana-Champaign, Champaign, Canada

SIRT3 Deficiency in the Liver and Development of Gestational Diabetes

Khushali Trivedi[1,2], Bo Xiang[1,2], Vernon Dolinsky[1,2]
[1]Department of Pharmacology & Therapeutics, University of Manitoba, Winnipeg, Canada. [2]Diabetes Research Envisioned & Accomplished in Manitoba (DREAM) Theme of the Children's Hospital Research Institute of Manitoba, Winnipeg, Canada

The effect of chronic metformin exposure on adult zebrafish stress physiology

Mobeen Ramzan[1], Maya Piasecki[1], Roshan Sivarajah[1], Shemar Williams[2], Jessica Qiu[2], Joanna Wilson[2], Oana Birceanu[1,2]
[1]The Department of Physiology and Pharmacology, Schulich School of Medicine & Dentistry, The University of Western Ontario, London, ON, Canada
[2]Department of Biology, McMaster University, Hamilton, ON, Canada

The Effect of L-Phenylalanine at Glutamate Synapses in the Rat Dorsomedial Hypothalamus

Diwan Minocha, Karen Crosby, Jillian Rourke
Mount Allison University, Sackville, Canada

The effects of NETs on endothelial health and function

Chloé Landry[1,2], Lihua Zhu[1], Dylan Burger[1,2]
[1]Ottawa Hospital Research Institute, Ottawa, Canada. [2]University of Ottawa, Ottawa, Canada

The expression and activities of alcohol dehydrogenase, aldehyde dehydrogenase, and aldehyde oxidase in minipig liver

Rei Sato[1,2], Austin Zimmer[1], Dickson Lai[1], Michael Doerksen[1], Miki Nakajima[2], Abby Collier[1]
[1]The University of British Columbia, Vancouver, Canada. [2]Kanazawa University, Kanazawa, Japan

The human MRS2 magnesium-binding domain is a regulatory feedback switch for channel activity

Sukanthathulse Uthayabalan
Ottawa, Ottawa, Canada

The impact of glucocorticoid treatment on health-related quality of life in children with rheumatic diseases: A Scoping Review

Renee Pang, Barbara Murray, Erkan Demirkaya, Michael Rieder, Roberta Berard
Western University, London, Canada

The incorporation of single cell sequencing data to develop a polygenic risk score to predict cisplatin-induced tinnitus

Feryal Ladha[1], Urim Iyasere[1], Britt Drogemoller[1,2,3,4]
[1]Department of Biochemistry and Medical Genetics, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada. [2]CancerCare Manitoba Research Institute, Winnipeg, Canada. [3]Children's Hospital Research Institute of Manitoba, Winnipeg, Canada. [4]Centre on Aging, Winnipeg, Canada

Training the next generation of pharmacist immunizers on the CARD (Comfort, Ask, Relax, Distract) vaccine delivery framework

Victoria Gudzak[1], Anna Taddio[1], Charlotte Logeman[2], Natalie Crown[1], Lucie M Bucci[3], Mike Folinas[1], Antonio N Ilersich[4], C Meghan McMurtry[5]
[1]University of Toronto, Toronto, Canada. [2]SickKids, Toronto, Canada. [3]Bucci-Hepworth Health Services, Pincourt, Canada. [4]University of Waterloo, Waterloo, Canada. [5]University of Guelph, Guelph, Canada

Trick or Treat? Investigating the biological effects of sucralose signaling through GPR52 in the gut

SunMin Park[1], Nick Fernandez[2,3,1], Madeline Power[4,1], Grace Stapleton[1], Jill Rourke[1]
[1]Mount Allison University, Sackville, Canada. [2]University of Toronto, Toronto, Canada. [3]The Hospital for Sick Children, Toronto, Canada. [4]Dalhousie Medicine New Brunswick, Saint John, Canada

Variation at the *TLR4* locus influences susceptibility to cisplatin-induced hearing loss in cancer patients

Asna Latif[1], Erika Scott[2,3], Abhinav Thakral[4], Jong Lee[4], Geoff Liu[4], Bruce Carleton[2], Colin Ross[2], Amit Bhavsar[1]
[1]University of Alberta, Edmonton, Canada. [2]University of British Columbia, Vancouver, Canada. [3]BC Children's Hospital Research Insititue, Vancouver, Canada. [4]University of Toronto, Toronto, Canada