### WEDNESDAY, JUNE 07, 2023

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<tr>
<td><strong>Welcome Address</strong> (Bruce Carleton, President CSPT)</td>
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| **Top Trainee Abstracts Oral Presentations**  
Moderator: Tamorah Lewis, SickKids  
(See below for list of presenters, P. 3) |

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| **Break and Poster Viewing**  
(See below for list of accepted abstracts, P. 7 - 12) |

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| **Rapid Fire Presentations**  
Moderator: Antonios Diab, Dalhousie University  
(See below for list of presenters, P. 4 - 6) |

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| **Career Networking Session**  
Hosted by Thomas Velenosi, University of British Columbia  
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  
**Carol Beck**, Associate Professor & Associate Dean, Thomas Jefferson University, Philadelphia, Pennsylvania |

### THURSDAY, JUNE 08, 2023

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| **Junior Investigator Award Platform Presentation**  
Moderator: Dylan Burger, University of Ottawa  
**Amit Bhavsar, PhD**, University of Alberta  
*PRPropelling insights into cisplatin-induced toxicity towards mitigation* |

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| **Senior Investigator Award Platform Presentation**  
Moderator: Abby Collier, University of British Columbia  
**Bruno Giros, PhD**, McGill University |
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<tr>
<td>Deciphering the role of D1/D2 dopamine receptors co-expressing striatal neurons in motor control using intersectional genetics</td>
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<td>- It’s DPYD Time to Save Lives, Angela Wu</td>
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<td>- Unhappy Hour: How Your Cocktail Might Cause SCAR, Kathy Chang</td>
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<td>- A curious case of hypercalcemia, Katrina Assen</td>
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<td>- The dark side of the miracle drug: Cutaneous delayed hypersensitivity reaction to Trikafta, Bianca Rosa Del Pozzo-Magana</td>
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<td>Moderators: Carol Beck, ASPET &amp; Khaled Abdelrahman, University of British Columbia</td>
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<td>- David Maj, MD, Western University</td>
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<td>The Cutting Edge: anti-prostate cancer drug interactions</td>
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<td>- Wasundara (Wasu) Fernando, PhD, Dalhousie University</td>
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<td>Bioavailability, metabolism, and pharmacokinetics of a flavonoid derivative in mice</td>
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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 University)
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 TLR4 locus influences 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** – **Sukanthathulse 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)
β-Arrestin recruitment and biased agonism at the M1 muscarinic receptor
Shayan Amiri¹,², Paul Fernyhough¹,²
¹Department of Pharmacology and Therapeutics, University of Manitoba, Winnipeg, Canada. ²Division 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 Line¹, Donald Miller², Magimairajan Vanan³, Sajesh Babu³, Teruna Siahann³, Kelly Schinghamer³
¹University of Manitoba, Narol, Canada. ²University of Manitoba, Winnipeg, Canada. ³University 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 Dugbartey¹,², Karl Alorno¹, Stephen Atule¹, Richard Obeng-Kyeremeh¹, Daniel Amoah¹, Samuel Adjei¹
¹University of Ghana, Accra, Ghana. ²University 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 Sidor¹, Sophie Nie¹, Thomas Velenosi², Gilles Lajoie³, Rommel Tirona¹, Bradley Urquhart¹
¹Department of Physiology and Pharmacology, Schulich School of Medicine and Dentistry, University of Western Ontario, London, ON, Canada. ²Faculty of Pharmaceutical Sciences, University of British Columbia, Vancouver, BC, Canada. ³Department 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 Assen¹, Michael Wilson², Elizabeth Urbantke³, Michael Rieder¹
¹Western University, London, Canada. ²Office of the Chief Coroner, Thunder Bay, Canada. ³Office 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 Panidaramu$^1$, 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$^{1,2}$, Jeremy A. Simpson$^{3,2}$, Keith R. Brunt$^{4,2}$
$^1$Dalhousie University, 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 Mufti1,2, Miguel Cordova2,3, Erika Scott1,2, Jessica Trueman2,3, Jessica Lovnicki2,3, Catrina Loucks2,3,4, Shahrad Rassekh2,5, Colin Ross1,2,6, Bruce Carleton1,2,3,7
1Department of Medical Genetics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. 2British Columbia Children's Hospital Research Institute, Vancouver, Canada. 3Division of Translational Therapeutics, Department of Pediatrics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. 4Department of Anesthesiology, Pharmacology & Therapeutics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. 5Division of Hematology, Oncology & Bone Marrow Transplant, Department of Pediatrics, Faculty of Medicine, University of British Columbia, Vancouver, Canada. 6Faculty of Pharmaceutical Sciences, University of British Columbia, Vancouver, Canada. 7Pharmaceutical Outcomes Programme, BC Children’s Hospital, Vancouver, Canada

Gestational Diabetes Mellitus Induces Cardiac Dysfunction and Altered Mitochondrial Protein Acetylation in the Offspring Heart
Caitlin Menzies1,2, Mateusz Tomczyk1,2, Bo Xiang1,2, Stephanie Kereliuk1,2, Vernon Dolinsky1,2
1Department of Pharmacology and Therapeutics, University of Manitoba, Winnipeg, Canada. 2Diabetes 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 Williamson1,2, Asaph Rolnitsky3,4, Yaron Finkelstein1,2
1Department of Paediatrics, The Hospital for Sick Children, Toronto, Canada. 2Departments of Paediatrics and Pharmacology and Toxicology, University of Toronto, Toronto, Canada. 3Neonatal-Perinatal Medicine, Sunnybrook Health Sciences Centre, Toronto, Canada. 4Department 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 Amao1, Margaret Sofidiya2, Adedunni Olusanya1, Oluwamuyiwa Fasina1
1College of Medicine, University of Lagos, Idiaraba, Nigeria. 2University of Lagos, Idiaraba, Nigeria

Jadomycin B Causes Human Breast Cancer Cell Death Through Inhibition of Cyclooxygenase-2 Signalling
Brendan T. McKeown1,2, Kerry B. Goralski1,2,3
1Dalhousie University, Halifax, Canada. 2Beatrice Hunter Cancer Research Institute, Halifax, Canada. 3IWK Health Centre, Halifax, Canada

Maternal RESV Supplementation and the Effects on Mitochondrial Metabolism and Cardiac hypertrophy in Fetal Cardiomyocytes.
Marcelo Ninalaya1,2, Mateusz Tomczyk1,2, Bo Xiang1,2, Gabriel Brawerman1,2, Stephanie Kereliuk1,2, Vernon Dolinsky1,2
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 Nelson1,2, Lester Perez1, Michael Connolly1, Malav Madhu1, Mathew Platt3, Keith Brunt1,2, Jeremy Simpson1,2
1Dalhousie University, Saint John, Canada. 2IMPART, Saint John, Canada. 3University of Guelph, Guelph, Canada

Opioids Safety in Pediatric Procedural Sedation with Ketamine and Opioids
Neta Cohen1, Gidon Test1, Yehonatan Pasternak1, dana Singer Harel1, Suzan Schneeweiss1, savithiri ratnapalan1, Suzanne Schuh1, YARON Finkelstein2
1Hospital for Sick Children, Toronto, Canada. 2Toronto, 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 Simkovich1,2, Tamer Abdelghany3,4, Aurelia Bihari1,5, Doaa Mossaad1, Pavan Mandapati1, Eden Reid2, Brad Urquhart2, Mahmoud Moustafa1
1London Research and Pharmaceutical Corporation, London, Canada. 2Department of Physiology and Pharmacology, Schulich School of Medicine & Dentistry, Western University, London, Canada. 3Department of Pharmacology and Toxicology, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt. 4Department of Pharmacology and Toxicology, Faculty of Pharmacy, Heliopolis University for Sustainable Development, Cairo, Egypt. 5Department 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. Tschirhart1,2, Xiangru Lu1, Aristide Kognou1, Claudio M. Martin3,2, Douglas D. Fraser3,2, Aleksandra Leligdowicz3,2, Bradley Urquhart6,2, Qingping Feng1,2
1Department of Physiology and Pharmacology, Schulich School of Dentistry and Medicine, Western University, London, Canada. 2Lawson Health Research Institute, London Health Sciences Centre, London, Canada. 3Division of Critical Care, Department of Medicine, Schulich School of Dentistry and Medicine, Western University, London, Canada. 4Robarts Research Institute, Schulich School of Dentistry and Medicine, Western University, London, Canada. 5Department of Microbiology and Immunology, Schulich School of Dentistry and Medicine, Western University, London, Canada. 6University of Western Ontario, Schulich School of Medicine and Dentistry, London, Canada.
Polygenic Risk Score associated with increased risk of L-asparaginase induced hypersensitivity
Spencer Anderson¹,², Erika Scott¹,², Catrina Loucks²,¹, Rod Rassemkh¹,², Colin Ross¹,², Bruce Carleton¹,²
¹University of British Columbia, Vancouver, Canada. ²BC Children's Hospital, Vancouver, Canada

Protein kinase A mediated regulation of equilibrative nucleoside transporter subtype 2
Nayiar Shahid¹, James Hammond²
¹University of Alberta, Edmonton, Canada. ²Edmonton, 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 Trivedi¹,², Bo Xiang¹,², Vernon Dolinsky¹,²
¹Department of Pharmacology & Therapeutics, University of Manitoba, Winnipeg, Canada. ²Diabetes 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 Ramzan¹, Maya Piasecki¹, Roshan Sivarajah¹, Shemar Williams², Jessica Qiu², Joanna Wilson², Oana Birceanu¹,²
¹The Department of Physiology and Pharmacology, Schulich School of Medicine & Dentistry, The University of Western Ontario, London, ON, Canada
²Department 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 Landry¹,², Lihua Zhu¹, Dylan Burger¹,²
¹Ottawa Hospital Research Institute, Ottawa, Canada. ²University of Ottawa, Ottawa, Canada

The expression and activities of alcohol dehydrogenase, aldehyde dehydrogenase, and aldehyde oxidase in minipig liver
Rei Sato¹,², Austin Zimmer¹, Dickson Lai¹, Michael Doerksen¹, Miki Nakajima², Abby Collier¹
¹The University of British Columbia, Vancouver, Canada. ²Kanazawa University, Kanazawa, Japan

The human MRS2 magnesium-binding domain is a regulatory feedback switch for channel activity
Sukanthathulse Uthayabalalan, Peter B. Stathopulos
Western University, London, 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 Ladha¹, Urim Iyasere¹, Britt Drogemoller¹,²,³,⁴
¹Department of Biochemistry and Medical Genetics, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Canada. ²CancerCare Manitoba Research Institute, Winnipeg, Canada. ³Children's Hospital Research Institute of Manitoba, Winnipeg, Canada. ⁴Centre on Aging, Winnipeg, Canada

Training the next generation of pharmacist immunizers on the CARD (Comfort, Ask, Relax, Distract) vaccine delivery framework
Victoria Gudzak¹, Anna Taddio¹, Charlotte Logeman², Natalie Crown¹, Lucie M Bucci³, Mike Folinas¹, Antonio N Ilersich⁴, C Meghan McMurtry⁵
¹University of Toronto, Toronto, Canada. ²SickKids, Toronto, Canada. ³Bucci-Hepworth Health Services, Pincourt, Canada. ⁴University of Waterloo, Waterloo, Canada. ⁵University of Guelph, Guelph, Canada

Trick or Treat? Investigating the biological effects of sucralose signaling through GPR52 in the gut
SunMin Park¹, Nick Fernandez²,³,¹, Madeline Power⁴,¹, Grace Stapleton¹, Jill Rourke¹
¹Mount Allison University, Sackville, Canada. ²University of Toronto, Toronto, Canada. ³The Hospital for Sick Children, Toronto, Canada. ⁴Dalhousie Medicine New Brunswick, Saint John, Canada

Variation at the TLR4 locus influences susceptibility to cisplatin-induced hearing loss in cancer patients
Asna Latif¹, Erika Scott²,³, Abhinav Thakral⁴, Jong Lee⁴, Geoff Liu⁴, Bruce Carleton², Colin Ross², Amit Bhavsar¹
¹University of Alberta, Edmonton, Canada. ²University of British Columbia, Vancouver, Canada. ³BC Children's Hospital Research Institute, Vancouver, Canada. ⁴University of Toronto, Toronto, Canada
Annual General Meeting (Business Meeting) Agenda – Thursday, June 8th, 2023

Agenda

:40 Welcome from the CSPT President
:45 Presentation of the 2022 CSPT Awards winners
:55 Introduction and ratification of the 2023 Board of Directors
:05 Committee highlights
:25 Treasurer’s Report and discussion on membership fees
:45 Introduction of the 2024 Annual Meeting
:50 Presentation of the 2023 Trainee Presentation Awards

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