

June 10, 2020

| 1:00 - 2:10 pm Eastern | Eight-minute Oral Presentations Moderator: Doreen Matsui, Western University | | |
|-------------------------------|--|--------------------------------|---|
| 2:12 - 2:15 | Annemarie Dedek | Carleton University | The T-type calcium channel inhibitor, Z944, reduces excitability of lamina I spinal neurons and attenuates pain hypersensitivity. |
| 2:17 - 2:20 | Jehan Alamri | University of British Columbia | Association of cannabinoid 1 receptor with cognitive impairment and age-related pathology in the elderly |
| 2:22 - 2:25 | Jacinda Kwok | University of Toronto | Involvement of NF- κ B and MAPK in TH-17-mediated downregulation of placental transporters |
| 2:27 - 2:30 | Laura Russell | Western University | Bile acid and rosuvastatin disposition in Ntcp (Slc10a1) knockout mice |
| 2:32 - 2:35 | Xin Tong Ma | Western University | The Role of Regulator of G-Protein Signaling 2 in Inflammatory Cytokine Release in Endotoxemia in Mice |
| 2:37 - 2:40 | Nicholas Tonial | Western University | Effect of chronic kidney disease on the ex vivo metabolism of cannabinoids |

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| 2:10 - 3:00 pm Eastern | Three-minute Oral Presentations | | |
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| | Moderator: Michael Rieder, Western University | | |
| 2:12 - 2:15 | Anne Dittrich | Amalia Children's Hospital, Nijmegen, The Netherlands | Adverse drug reactions, we can do better! |
| 2:17 - 2:20 | Khaled Abdelrahman | University of Ottawa | A β oligomers induce sex-selective pathophysiological mGluR5 signaling in Alzheimer mice |
| 2:22 - 2:25 | Saumil Dholakia | McMaster University | An Equity-enhancing tool for older adults with mental illness?-a case report. |
| 2:27 - 2:30 | Shaun Khoo | Université de Montréal | Effects of activating mGlu2/3 receptors in the dorsal striatum on motivation for taking cocaine |
| 2:32 - 2:35 | Sumeya Mukhtar | McMaster University | Pharmacological inhibition of DNA methyltransferase alters neurotrophic factor expression |
| 2:37 - 2:40 | Anish Engineer | Western University | The Role of microRNA-122 in Pathogenesis of Congenital Heart Defects during Pregestational Diabetes |
| 2:42 - 2:45 | Anna Leonova | McMaster University | Effects of cytotraxin-b treatment on endometriotic lesion survival in an immunocompromised mouse model |

CSPT 2020 Virtual Conference Agenda

PLEASE NOTE ALL TIMES ARE IN EASTERN

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|-------------|------------------|--------------------|--|
| 2:47 - 2:50 | Gregory Robinson | Western University | The effects of maternal delta-9-tetrahydrocannabinol and cannabidiol exposure on fetal heart development in mice |
| 2:52 - 2:55 | Jacob Wihlidal | Western University | Effects of maternal delta 9-tetrahydrocannabinol (Δ 9-THC) exposure on fetal murine lung development. |
| 2:57 - 3:00 | Fang Ye | Western University | Differential miRNA expression of fetal hearts of pregestational diabetes by maternal exercise |

June 10, 2020

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| 3:00 - 4:00 pm Eastern | Three-minute Oral Presentations Moderator: Fabiana Crowley, Western University | | |
| 3:02 - 3:05 | José Eduardo Juarez-Herna | University of British Columbia | Pharmacokinetic model of lamotrigine in Mexican children with epilepsy |
| 3:07 - 3:10 | Mohammad Akram Randhawa | HBS Medical and Dental College, Islamabad, Pakistan | Ionization status of drugs has poor association with their transmembrane diffusion |
| 3:12 - 3:15 | Mohammad Akram Randhawa | HBS Medical and Dental College, Islamabad, Pakistan | Long term benefits of a new life-style change for the management of GERD - A case report |
| 3:17 - 3:20 | QiTong Lin | Western University | The EF-hand in human LETM1 acts as a tripartite environmental sensor to calcium binding, temperature and pH |

June 10 to 12, 2020

CSPT 2020 Virtual Conference Agenda

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| | | | |
|-------------|----------------|--|--|
| 3:22 - 3:25 | Victor Mirka | Western University | The adhesion GPCR CD97 is activated by tethered agonism |
| 3:27 - 3:30 | Megan Noble | Western University | The MCU and MCUB N-terminal domains tightly interact: a mechanism for dominant negative inhibition of MCU function. |
| 3:32 - 3:35 | Gagandeep Kaur | Punjabi University Patiala, Punjab, India | Mechanistic Involvement of PTPase in Adriamycin Induced Advanced Chronic Kidney Disease In Rodents |
| 3:37 - 3:40 | Nicole Sidor | Western University | Investigation of <i>N,N,N</i> -trimethyl-L-alanyl-L-proline betaine (TMAP) as a candidate biomarker of kidney function |
| 3:42 - 3:45 | Joanna Cunanan | McMaster University | Quercetin as a novel treatment for abnormal nephron formation in renal dysplasia |

June 10 to 12, 2020

June 11, 2020

| 1:00 - 2:10 pm Eastern | | | |
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| Eight-minute Oral Presentations | | | |
| Moderator: Pascal Bernatchez, University of British Columbia | | | |
| 1:00 - 1:10 | Peter Pham | Western University | Bivalent ligand targeting the ghrelin receptor oligomer |
| 1:12 - 1:22 | Angela Siemens | University of British Columbia | Validating the Predictive Performance of Polygenic Risk-Models for Anthracycline-Induced Cardiotoxicity and Cisplatin-Induced Ototoxicity in Pediatric Oncology |
| 1:24 - 1:34 | Ozgun Varol | University of Ottawa | Endothelial-derived exosomes protect against angiotensin II-induced oxidative stress in endothelial cells |
| 1:36 - 1:46 | Thomas Velenosi | National Cancer Institute | Urinary diacetylspermine as a metabolic biomarker of doxorubicin effectiveness in triple negative breast cancer |
| 1:48 - 1:58 | Brandon Baer | Western University | Exogenous surfactant as a pulmonary drug delivery vehicle for budesonide in the treatment of ARDS |
| 2:00 - 2:10 | Jafar Hasbullah | University of British Columbia | A genetic variant in RARG informs anthracycline-induced cardiotoxicity risk status and a viable cardiac protection strategy |

June 11, 2020

| 2:10 - 3:00 pm Eastern | | | |
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| Three-minute Oral Presentations | | | |
| Moderator: Abby Collier, University of British Columbia | | | |
| 2:12 - 2:15 | Christian Sirko | Western University | Characterizing the structural, biophysical and functional effects of S-glutathionylation on STIM1 calcium sensing |
| 2:17 - 2:20 | Pierre Thibeault | Western University | Functional role of C-terminal tail and helix-8 residues in the thrombin-activated GPCR, Proteinase Activated Receptor 4 (PAR4) |
| 2:22 - 2:25 | Fang Wang | Western University | Positive Allosteric Actions of Extracellular Nucleotides and Sugar Phosphates at the Adenosine A _{2a} Receptor |
| 2:27 - 2:30 | Arundhasa Chandrabalan | Western University | Novel biosensors identify autocrine Proteinase Activated Receptor (PAR) signaling in human prostate cancer cells |
| 2:32 - 2:35 | Kevin Yan | University of British Columbia | Association between calcium channel blocker subtypes and prostate cancer related mortality |
| 2:37 - 2:40 | Stacey Line | University of Manitoba | Development and validation of a dynamic, microfluidic culture model for assessing blood-brain barrier function in health and disease. |
| 2:42 - 2:45 | Brent Tschirhart | Western University | Effects of Platelet Derived Microparticles and Annexin A5 on Vascular Inflammation in Sepsis |

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| 2:47 - 2:50 | Samuel Bamitale | University of Namibia | Compliance with the standard treatment guidelines in the pharmacological management of hypertension in elderly patients at Katutura Hospital Windhoek, Namibia |
| 2:52 - 2:55 | Chloé Landry | University of Ottawa | Angiotensin II increases formation of neutrophil extracellular trap: Role in Hypertension and Diabetes |
| 2:57 - 3:00 | Erika Scott | University of British Columbia | Meta-analysis of four independent adult patient cohorts to uncover genetic variants associated with anthracycline-induced cardiotoxicity |

June 11, 2020

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|-------------------------------|---|---|---|
| 3:00 - 4:00 pm Eastern | Three-minute Oral Presentations Moderator: Dylan Burger, University of Ottawa | | |
| 3:02 - 3:05 | Carlos Perez Montilla | Multidisciplinary Institute for Research in Pediatric Pathologies | Development of an ultra-fast UHPLC-MS/MS method for therapeutic monitoring of Cannabidiol (CBD), Tetrahydrocannabinol (THC), their major metabolites and others cannabinoids in plasma from pediatric patients treated for refractory epilepsy. |
| 3:07 - 3:10 | P. Timothy Pollak | University of Calgary | Natural history of heart rate decrease during initiation of amiodarone therapy correlates strongly with accumulation of serum desethylamiodarone concentrations |
| 3:12 - 3:15 | Christine Caron | Western University | Characterizing T-cell phenotype in patients with hypersensitivity reactions to sulfonamides and beta-lactam antibiotics |
| 3:17 - 3:20 | Wan-Chun Chang | University of British Columbia | Genetic susceptibility to sulfamethoxazole/trimethoprim (SMX/TMP)-induced cutaneous adverse reactions in pediatric cancer patients |

June 10 to 12, 2020

CSPT 2020 Virtual Conference Agenda

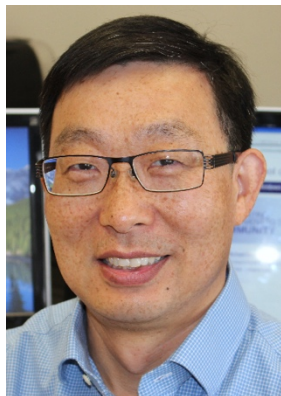
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| 3:22 - 3:25 | Blanca Rosa Del Pozzo-Maganaozzo- | London Health Sciences/ Western University | Pathogenesis of Beta-lactam-induced Serum Sickness-Like Reaction: The potential role of Reactive Drug Metabolites |
| 3:27 - 3:30 | Lizette Gil-del Valle | Pharmacological Research, Institute Pedro Kourí, La Habana, Cuba | Oxidative Stress in HIV-HVC and HIV-TB co-infected Patients in Havana, Cuba |
| 3:32 - 3:35 | Catrina Loucks | University of British Columbia | Host genetic variation is linked to treatment failure in sofosbuvir-treated hepatitis C patients |
| 3:37 - 3:40 | Hans Gober | BC Children's Hospital | Hydroxyzine use in preschool children and its effect on neurodevelopment: a Population-based Study |
| 3:42 - 3:45 | Victoria Gudzak | University of Toronto | Perspectives of CARD™ implementation in Wellington-Dufferin-Guelph (WDG) Public Health staff. |
| 3:47 - 3:50 | Danielle Johnson | University of Liverpool UK/ University of Manitoba | The design of a discrete choice experiment to measure public opinion on genetic panel testing |

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June 12, 2020

1:00 - 1:25

CSPT Senior Investigator Award: Qingping Feng*Pharmacology in translation: from congenital heart defects to sepsis and COVID-19*

Dr. Qingping Feng obtained his MD from Southeast University Medical School, Nanjing, China (1978-1983) and PhD in pharmacology from the University of Gothenburg, Sweden (1989-1993) followed by his postdoctoral training at Western University, Canada (1993-1995). He is currently Professor of Physiology, Pharmacology, and Medicine, and Richard & Jean Ivey Chair in Molecular Toxicology at Schulich School of Medicine and Dentistry, Western University, and a Scientist at Lawson Health Research Institute. Dr. Feng studies embryonic heart development and mechanisms by which pregestational diabetes induces congenital heart defects. He also studies pathophysiology of heart failure and sepsis to identify therapeutic targets. He has published over 120 peer-reviewed papers in high impact cardiovascular journals including *Circulation*, *European Heart Journal*, and *Diabetes*. His work has increased our understanding on molecular mechanisms of heart failure, congenital heart defects and sepsis, and provided novel insights in therapeutic strategies for their treatment and prevention.

1:25 - 1:50

CSPT Junior Investigator Award: Basil Hubbard*Advancing CRISPR/Cas9-based therapeutics using chemically-modified guide RNAs*

Dr. Basil P. Hubbard received his PhD from Harvard Medical School in 2011, where he worked on small-molecule drugs to combat age-related disease in the lab of David Sinclair. He then carried out postdoctoral work in the area of protein directed evolution and gene editing in David Liu's lab in the Department of Chemistry and Chemical Biology at Harvard University. Since 2015 he has been an Assistant Professor and Tier II Canada Research Chair in Molecular Therapeutics at the University of Alberta. His lab specializes in new drug target identification, gene editing, and xenobiology, with a particular interest in applying xenonucleic acid (XNA) technology to next-generation therapeutics.

1:50 -2:15

CSPT Postdoctoral Award: Khaled Abd-Elrahman*Sex-specific modulation of mGluR5 signaling in Alzheimer's disease*

Dr. Khaled Abdelrahman holds a BSc (Pharmaceutical Sciences) and MSc (Pharmacology) from the Faculty of Pharmacy, University of Alexandria, Egypt. He then moved to Canada to start his PhD at the University Calgary exploring how diabetes alters brain blood flow and incidence of stroke. In 2015, he joined the Department of Cellular and Molecular Medicine at the University of Ottawa as a Postdoctoral Fellow exploiting novel targets for the treatment of neurodegenerative diseases. His research defines the link between metabotropic glutamate receptors 5 and autophagy in Huntington's and Alzheimer's diseases. He is also interested in studying what aspects of GPCR signaling are regulated in a sex-specific manner and

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| | how this might influence drug discovery and clinical trials for neurodegenerative diseases. He is a Registered Clinical Pharmacist in Ontario and holds two of the most prestigious Clinician Postdoctoral Fellowships offered by Alberta Innovates and CIHR. |
| 2:15 - 2:25 | Break |
| 2:25 - 3:20 | Annual General Meeting |
| 3:20 - 3:30 | Announcement of Trainee and Publication Award Winners |