



Translating Innovative Technology to Patient Care

**Chelsea Hotel, Toronto, ON -- May 22-25, 2018
2018 Conference**

Presented by:

**Canadian Society for Pharmaceutical Sciences (CSPS)
Canadian Society of Pharmacology and Therapeutics (CSPT)
Canadian Chapter of Controlled Release Society (CC-CRS)**

Conference Scientific Co-Chairs: Catherine Lau (Janssen Inc.), Micheline Piquette-Miller (University of Toronto)

Organizing Committee:

For CSPS: Frank Abbott (UBC), Christine Allen (University of Toronto), Fakhreddin (Mo) Jamali (University of Alberta)

For CSPT: Brad Urquhart (Western University), Kerry Goralski (Dalhousie University), Rande Holmes (CSPT)

For CC-CRS: Marc Gauthier (INRS)

TUESDAY, MAY 22, 2018			
7:00 AM	Registration for CC-CRS Workshop:		
8:00 AM - 12:30 PM	CC-CRS Workshop: Formulation and Delivery of Biologics: Vaccines, Peptide/Protein, and Gene Therapeutics See more information SEPARATE REGISTRATION REQUIRED. Registration will take place at Workshop location. Room: Leslie Dan Faculty of Pharmacy, University of Toronto [NOTE LOCATION]		
7:00 AM	Registration for CSPT Workshops		
8:00 AM	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 8:00 AM to 5:45 PM CSPT Course: Pharmacogenomics and Precision Medicine: Introductory and Intermediate Course - See more information SEPARATE REGISTRATION REQUIRED. Room: Rosetti </td> <td style="width: 50%; vertical-align: top;"> 8:30 AM to 4:30 PM CSPT Therapeutics Update 2018 See more information SEPARATE REGISTRATION REQUIRED. Room: Stevenson </td> </tr> </table>	8:00 AM to 5:45 PM CSPT Course: Pharmacogenomics and Precision Medicine: Introductory and Intermediate Course - See more information SEPARATE REGISTRATION REQUIRED. Room: Rosetti	8:30 AM to 4:30 PM CSPT Therapeutics Update 2018 See more information SEPARATE REGISTRATION REQUIRED. Room: Stevenson
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9:30 AM	<i>CSPS Board Meeting (Windsor Room)</i>		
12:00 PM	Registration for CSPS/ CSPT / CC-CRS Conference		
1:00 - 5:00 PM	Industry Day: Innovation and Management of Modern Pharmaceuticals <i>(Chairs: Andrew Casey, BIOTECanada, and Christine Allen, University of Toronto)</i> Room: Churchill Ballroom		
1:00 PM	Opening and Welcome: Catherine Lau, CSPS President & Conference Co-Chair Introductory Remarks: Andrew Casey, BIOTECanada		
1:10 - 2:00 PM	PLENARY: Mary Haak-Frendscho, Blueline Bioscience & Versant Ventures <i>The View From Here: Innovation Canadian Style</i>		

TUESDAY, MAY 22, 2018 (cont'd)

2:00 - 2:15 PM	<p>MaRS Innovation: Raphael (Rafi) Hofstein, President & CEO <i>MaRS Innovation: Modern Approaches to Bridging the Valley of Death</i></p>
2:15 - 2:30 PM	<p>JLABS: Allan Miranda, Head of JLABS @ Canada <i>JLABS @ Canada Catalyzing Innovation</i></p>
2:30 - 2:45 PM	<p>Avicanna: Aras Azadian, President & CEO <i>Avicanna and Evidenced Backed Delivery of Medical Cannabinoids</i></p>
2:45 - 3:00 PM	<p>Cyclica Inc.: Stephen MacKinnon, Director of R&D <i>Structure-Based and AI-Augmented Proteome Screening for Drug Discovery</i></p>
3:00 - 3:15 PM	<p>Coffee & Tea Break</p>
3:15 - 3:30 PM	<p>Pendant Biosciences: Shawn Gliner, CEO <i>From the Bench to the Board Room: The Things Nobody Tells You!</i></p>
3:30 - 3:45 PM	<p>Panag Pharma, Halifax: Melanie Kelly, Chief Scientific Officer, and Tetra Bio Pharma, Montreal: Guy Chamberland, Chief Scientific Officer <i>Navigating the Cannabis Pharma Space</i></p>
3:45 - 4:00 PM	<p>Mirexus Inc.: John Dutcher, Founder <i>Phytoglycogen Nanoparticles in Nanomedicine: Novel Drug Delivery, Anti-Infective & Immunomodulatory Agents</i></p>
4:00 - 4:15 PM	<p>Centre for Commercialization of Regenerative Medicine (CCRM): Michael May, President & CEO <i>Title TBA</i></p>
4:15 - 4:30 PM	<p>Encycle Therapeutics: Jeffrey Coull, CEO <i>Nacellins: New Therapeutic Entities for Challenging Targets</i></p>
4:30 - 4:45 PM	<p>ImmunoBiochem Inc.: Anton Neschadim, CEO <i>Targeting the Cancer Cell Secretome to Overcome Tumor Heterogeneity</i></p>
4:45 - 5:00 PM	<p>IMV Inc.: Genevieve Weir, Director of Research <i>Improving Immune Responses to Cancer Antigens Using a Nanoparticle Formulation that Targets Lymph Node Cells</i></p>
5:30 - 7:00 PM	<p>Welcome Reception: CSPA, CSPT, CC-CRS <i>Churchill Court</i></p>

WEDNESDAY, MAY 23 - MORNING SESSIONS

7:00 AM	Registration & Poster Set-Up		
7:00 - 9:00 AM	Trainee Breakfast & Session: Nana Lee , Faculty of Medicine, University of Toronto <i>Creating Your Career Path with your Grad Degree</i> Trainee Breakfast 7:00 - 7:30 AM, Session 7:30 - 9:00 AM Room: Rosetti		
8:30 AM	Coffee & Muffins		
9:00 - 9:05 AM	Welcome from: <ul style="list-style-type: none"> - CSPA - Cathy Lau, President - CSPT - Kerry Goralski, Vice President - CC-CRS - Marc Gauthier, President 		
9:00-10:00 AM	PLENARY SESSION: David Juurlink , Sunnybrook Health Sciences Centre <i>The North American Opioid Crisis from 30,000 Feet</i> Chair: Tuan Trang, University of Calgary Room: Churchill Ballroom		
10-10:30 AM	Coffee & Tea Break: Posters, Exhibitors, & Networking		
10:30 AM - 12:30 PM	SESSION 1A: OPIOID CRISIS Chair: David Juurlink, Sunnybrook Health Sciences Centre Room: Churchill Ballroom	SESSION 1B: REGULATORY REFORMS Chair: Cathy Parker, Director General, BGTD, Health Canada Room: Rosetti	SESSION 1C: CROSSING BIOLOGICAL MEMBRANES Co-Chairs: Emmanuel Ho, Univ. of Waterloo, and Kerry Goralski, Dalhousie University Room: Wren
10:30	<i>Opioid Use and Adverse Events: Emerging Trends and Policy Impacts</i> Tara Gomes , Li Ka Shing Knowledge Institute of St. Michael's	<i>Improving Access to Innovative Medicines: Health Canada's Regulatory Reform Initiative</i> Catherine Parker , Health Canada	<i>Improving Predictions of Renal Anionic Drug Transport</i> Ryan Pelis , Dalhousie University
11:00	<i>Pharmacological Strategies for Harm Reduction in Opioid Use Disorder: An Overview</i> Jessica Leen , University of Toronto	<i>CADTH in 2018: Crossroads, Inflection Points, and Partnerships</i> Heather Logan , Canadian Agency for Drugs & Technologies in Health (CADTH)	<i>Disruption of Model Membranes by Surfactants used in Gene Delivery</i> Shawn Wettig , University of Waterloo
11:30	<i>Nudges, Pushes, Policy and St Francis: Perspectives on the Opioid Crisis</i> Shawn Bugden , Memorial University of Newfoundland	<i>PMPRB Framework Modernization</i> Doug Clark , Patented Medicine Prices Review Board, Govt. of Canada	<i>Medicating the Brain: The Challenges of Getting Drugs Past the Blood-Brain Barrier</i> Donald Miller , University of Manitoba
12:00	<i>HPFB Activities in Support of the Federal Action on Opioids</i> Emma Spreekmeester , Health Canada	Panel Discussion: Speakers plus: Ed Dybka , QIV Capital (Past President, AstraZeneca Canada Inc.) Durhane Wong-Rieger , Consumer Advocare Network	<i>Optimizing Nanoparticle Interactions with Macrophages and Endothelial Cells for Improved Site-Specific Delivery</i> Joy Wolfram , Mayo Clinic
12:30 - 1:00	CSPA Lifetime Achievement Award: Presentation & Lecture: Gordon Amidon , University of Michigan <i>Don't Throw the BA/BE out with the Bathwater: (Mechanistic Oral BE)</i> Chair: Fakhreddin Jamali, University of Alberta Room: Rosetti	CSPT Distinguished Service and Education Award: George Dresser , Western University <i>Translating Health Technology at the most Challenging Interface: The Physician/Patient Interaction</i> Room: Wren	
1:00 - 1:30	Lunch break (on your own) Posters, Exhibitors, and Networking		

WEDNESDAY, MAY 23 - AFTERNOON SESSIONS

1:30 - 2:30	Poster Session, Exhibitors		
2:30 - 5:10	SESSION 2A: KNOWLEDGE TRANSLATION – FROM REAL WORLD EVIDENCE TO CANADIAN HEALTH CARE NEEDS <i>Chair: George Wells, University of Ottawa, and University of Ottawa Heart Institute</i> Room: Churchill Ballroom	SESSION 2B: PHARMACEUTICAL POTENTIAL OF STEM CELL & CRISPR-MEDIATED GENE MODIFICATIONS <i>Chair: Jeffrey Henderson, University of Toronto</i> Room: Rosetti	SESSION 2C: CSPT TRAINEE ORAL PRESENTATIONS <i>Chair: Tuan Trang, University of Calgary</i> Room: Wren
2:30	<i>Public Payer Perceptions of the Value of Real World Evidence</i> Don Huseureau , University of Ottawa, School of Epidemiology and Public Health	<i>Stem Cell Activation to Promote Self-repair of the Injured Nervous System</i> Cindi Morshead , Donnelly Centre for Cellular and Biomolecular Research	Galen Wright , University of British Columbia Khaled Adb-Elrahman , Ottawa University
3:00	<i>Improving the Use of Real World Evidence in the Regulatory Environment: Where are we Heading?</i> Rhonda Kropp , Marketed Health Products Directorate, Health Canada	<i>A Stemness-based Drug Screen to Target Acute Myeloid Leukemia Stem Cells</i> Jean Wang , Princess Margaret Cancer Centre, Univ. Health Network	Britt Drögemöller , University of British Columbia Anish Engineer , Western University Elizabeth Greco , Western University Shrinidh Joshi , North Dakota State University
3:30	Coffee & Tea Break: Posters, Exhibitors, & Networking		
4:00	<i>Canadian Network for Observational Drug Effect Studies: Using Real-World Evidence to Inform Regulatory Decisions</i> Robert Platt , CNODES and DSEN	<i>Opening the Gate for Pluripotent Stem Cell-based Therapies</i> Andras Nagy , Lunenfeld-Tanenbaum Research Institute, Sinai Health System	Anette Surmanski , Western University Markus Gulilat , Western University Eliza McColl , University of Toronto Kamelia Mirdamadi , University of Toronto
4:30	<i>Life-Cycle HTA: Unlocking the Potential for Real World Evidence</i> Tammy Clifford , CADTH	<i>Network Analysis of Cell Death Signaling Pathways via CRISPR-mediated Modification in Embryonic Stem Cells and Derivatives</i> Jeffrey Henderson , University of Toronto	Tessa Bendyshe-Walton , University of British Columbia Jay Fang , Western University Pierre Thibeault , Western University Yong Jin (James) Lin , Western University
5:00 - 5:10 PM		Selected CSPA trainee abstract presentation: <i>Investigating the Role of the IKKβ Protein Kinase in Vascular Remodeling Events</i> Francis Lefebvre , Université de Montréal	
5:15 - 6:15 PM		Launch of CSPA Young Scientist Network We are building a community known as the <i>CSPA Young Scientist Network</i> to bring together trainees pursuing pharmaceutical sciences across the country. This meeting will be an opportunity for anyone who is interested in joining to offer feedback about how they would like the network to operate and to establish points of contact at the various schools across the country.	
7:00 PM	[Free Evening] - Toronto Blue Jays Game		

THURSDAY, MAY 24 - MORNING SESSIONS

7:00 AM	Registration & Poster Set-Up		
8:00 AM	Coffee & Muffins		
8:30 - 9:30 AM	PLENARY SESSION: Tak Mak , Ontario Cancer Institute, Princess Margaret Hospital, Toronto <i>The Fourth Pillar of Cancer Treatment: It Takes a Village</i> Chair: Catherine Lau, Janssen Inc. Room: Churchill Ballroom		
9:30 - 10:00 AM	Coffee & Tea Break: Posters, Exhibitors, & Networking		
10:00 AM - 12:00 PM	SESSION 3A: IMMUNO-ONCOLOGY Chair: Pamela Ohashi, Princess Margaret Cancer Centre Room: Churchill Ballroom SPONSORED BY: CDRD	SESSION 3B: THE GUT MICROBIOME AS A NOVEL THERAPEUTIC TARGET Chair: Brad Urquhart, Western University Room: Rosetti	SESSION 3C: PRACTICAL PHARMACOLOGY: CASE STUDIES FROM ACROSS THE COUNTRY Chair: George Dresser, Western University Room: Wren
10:00	10:00 - 10:20 CAR Therapy: The CD19 Paradigm and Beyond Michel Sadelain , Memorial Sloan-Kettering Cancer Center, NYC	Overview of the Microbiome and its Potential Role in Therapeutics Michael Surette , McMaster University	10:00: Clearing Up Controversies Around Carfentanil Jessica Leen , University of Toronto
10:30	10:20 - 10:40 A Trans-Canada Highway for CAR-T Cells Brad Nelson , BC Cancer Agency - Deeley Research Centre	Microbial Effects on Innate and Adaptive Immunity Kathy McCoy , University of Calgary	10:15: A Case of Unilateral Adrenal Adenoma with Resistant Hypertension Marc Chretien , Western University
11:00	10:40 - 11:00 - A New Generation CAR Containing a JAK-STAT Signaling Domain Mediates Superior Antitumor Effects Naoto Hirano , Princess Margaret Cancer Centre, UHN	Fecal Microbial Transplants: Treatment of C. Difficile and Beyond Michael Silverman , Western University	10:30: Improving Outcomes for Childhood Cancer Patients Using Genomics-guided Treatment Optimization Catrina Loucks , University of British Columbia
11:30	11:00 - 11:20 Immuno-Oncology Combinations in Clinical Development Lillian Siu , Princess Margaret Cancer Ctr	Unexplained Atherosclerosis and Metabolic Products of the Intestinal Microbiome David Spence , Western University	10:45: Choosing the Right Antihypertensives for your Pregnant Patient Albayada Medhar , Western University
	11:20 Panel Discussion with: Session Speakers + Jian Wang , Health Canada Ismael Samudio , CDRD		11:00: Genetic Screening and Cannabis Induced-Psychosis: Who, What and When? Gavin Sun , Western University
12:00 - 12:30			11:15 CSPT Clinical Fellowship Award Lecture: Gavin Sun , Western University
			11:45 CSPT Post-Doctoral Award Lecture: Galen Wright , University of British Columbia Room: Wren
12:30-1:30	Annual General Meetings: CSPS (Churchill), CSPT (Wren), CC-CRS (Rosetti) Lunch break (on your own) following AGMs Posters, Exhibitors, and Networking		

THURSDAY, MAY 24 - AFTERNOON SESSIONS

1:30 - 2:30	Poster Session		
2:30 - 5:10	SESSION 4A: TRANSLATIONAL MEDICINE <i>Co-Chairs: Ming Tsao, Ontario Cancer Institute; Janet Dancey, Canadian Cancer Trials Group & Queens University</i> Room: Churchill Ballroom	SESSION 4B: CANNABINOIDS <i>Chair: Rachel Tyndale, CAMH</i> Room: Rosetti	SESSION 4C: INNOVATIVE BIOMATERIALS FOR DRUG DELIVERY <i>Co-Chairs: Todd Hoare, McMaster University, Marta Cerruti, McGill University</i> Room: Wren
2:30	2:30-2:50 <i>Opening Pandora's Genome: Rethinking Molecular Diagnostics</i> Aly Karsan , BC Cancer Agency	<i>Therapeutic Potential of CB1 Allosteric Modulators</i> Ruth Ross , University of Toronto	<i>Trigger-Amplifying Self-Immolative Nanoparticles for Drug Delivery</i> Elizabeth Gillies , Western University
3:00	2:50-3:10 <i>Biomarker Testing in Lung Cancer</i> Ming Tsao , Ontario Cancer Institute 3:10-3:30 <i>Tumor Mutational Burden as a Biomarker for Cancer Immunotherapy</i> Caitlin Connelly , Foundation Medicine	<i>Growing up High: Long-Term Consequence of Adolescent Cannabis Use - Preclinical Studies</i> Jibran Khokhar , University of Guelph	<i>Polymer- Based Protein Delivery Systems</i> Sankaran Thayumanavan , University of Massachusetts
3:30	Coffee & Tea Break: Posters, Exhibitors, & Networking		
4:00	4:00-4:20 <i>Molecular Diagnostic Advancement in Oncology</i> Alan Spatz , McGill University & Jewish General Hospital	<i>Adolescent Cannabis Use: Risk for Mental Health and Drug Dependence</i> Marcus Munafò , University of Bristol, UK	<i>Controlled-Release Nano-Therapeutics: The Status of Translation</i> Subramanian Venkatraman , NTU Singapore
4:30	4:20-5:00 Panel Discussion: All Speakers + Janet Dancey , Canadian Cancer Trials Group, and Queens University Raffi Tonikian , Merck	<i>Opioid Sparing Effects of Cannabinoids: Myth or Reality?</i> Bernard Le Foll , University of Toronto	<i>Biomimetic Nanoparticles for Targeted Drug Delivery and Detoxification</i> Liangfang Zhang , UC San Diego
5:00 PM	5:00-5:10 PM Selected CSPS oral abstract presentation: <i>Combining Statins with Radio-immunotherapy as a Novel Therapeutic Strategy for Colorectal Cancer</i> Vessie Vassileva , Imperial College London	5:00-6:00 PM - Panel Discussion The Future of Medical Cannabis in Canada Moderators: Aras Azadian , Avicanna; James Evans, University of Toronto Participants: <ul style="list-style-type: none"> • Beleave (Peter Chen, VP of Science and Technology) • Avicanna (Aras Azadian, President) • CannTrust (Kaivan Talachian, VP, Professional Services) • University of Toronto (Lakshmi Kotra) 	5:00-5:10 PM Selected oral abstract presentation: <i>Hyperthermia-Mediated Nanomedicine Drug Delivery</i> Michael Dunne , University of Toronto <hr/> Presentation of CC-CRS Poster Awards
6:30 PM	Conference Gala and Awards Dinner (6:30 PM Cash Bar, 7:30 PM Dinner) Churchill Ballroom		

FRIDAY, MAY 25 - MORNING SESSIONS

7:30 AM	Registration	
8:00 AM	Coffee & Muffins	
8:30 - 9:30	<p>PLENARY SESSION: Richard Weinshilboum, Mayo Clinic <i>Pharmacogenomics: Clinical Implementation and Future Challenges</i></p> <p>Chair: <i>Micheline Piquette-Miller, University of Toronto</i> Room: Churchill Ballroom</p>	
9:30-- 10:00	Coffee & Tea Break: Networking	
10:00 - 12:00 Noon	<p>SESSION 5A: PHARMACOGENOMIC IMPLEMENTATION Chair: <i>Micheline Piquette-Miller, University of Toronto</i> Room: Churchill Ballroom</p>	<p>SESSION 5B: DRUG THERAPY IN CHILDREN Chair: <i>Michael Rieder, Western University</i> Room: Rosetti</p>
10:00	<p><i>PRIME: Implementing Pharmacogenomic Testing into Pharmacy Practice - Focus on Mental Health Pharmacotherapy</i> Natalie Crown, University of Toronto</p>	<p><i>Nephrotoxic Acute Kidney Injury in Hospitalized Children and Description of a National Cisplatin Pediatric Cohort</i> Mike Zappitelli, The Hospital for Sick Children, Toronto</p>
10:30	<p><i>Clinical Pharmacogenomics Program in Pediatric Oncology: 225 Patients and Counting</i> Bruce Carleton, University of British Columbia</p>	<p><i>Novel Approaches to Improving Pharmacotherapy in Epilepsy: Machine Learning and Human Organoids</i> Peter Carlen, University of Toronto</p>
11:00	<p><i>Clinical Utilization of Pharmacogenomic Testing – The Evolving Canadian Environment</i> Christopher Trevors, Dynacare</p>	<p><i>Vaccinating Children Against Pain and Fear</i> Anna Taddio, University of Toronto</p>
11:30	<p><i>Pharmacogenetics in the Benefits Arena – Baby Steps; Giant Opportunities</i> Wayne Murphy, Prudent Benefits Administration Services</p>	<p>CSPT Senior Investigator Award: <i>Addiction to Cocaine: How you Take the Drug is More Important than how Much</i> Anne-Noël Samaha, Université de Montréal</p>
12:00 PM	<p><i>Trainee Poster Awards - Announcement and Presentation of Awards</i> Churchill Ballroom</p>	
12:30 PM	Conference Concludes	