



From Transformational Technologies to Innovative Health Care Solutions

Sheraton Vancouver Airport, Vancouver, BC | May 21-24, 2019

2019 Symposium

Presented by:

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

Symposium Chair: Catherine Lau (Janssen Inc.)

Scientific Co-Chairs: Jason Crawford (CDRD), Corey Nislow (UBC)

Organizing Committee:

For CSPS: Frank Abbott (UBC), Noriko Daneshtalab (MUN), Fakhreddin (Mo) Jamali (University of Alberta) **For CC-CRS:** Marc Gauthier (INRS)

TUESDAY, MAY 21, 2019	
11:00AM	Registration for CSPS/ CC-CRS Conference (Minoru Foyer)
	Industry Day (Room: Minoru A & B) <i>Co-Chairs: Jason Crawford, CDRD & Christine Allen, University of Toronto</i>
12:55PM	Opening and Welcome: Jason Crawford & Christine Allen (Room: Minoru A & B)
1:00PM	PLENARY 1: David K Lee , Chief Regulatory Officer, Products and Food Branch, Health Canada <i>The Future of Health Products and Regulatory Modernization</i>
2:00PM	Companies to give presentations: Cuprous Pharmaceuticals – Marcel Bally <i>Using Coordination Chemistry and Nanotechnology to Develop a Brand New Class of Therapeutics</i> Precision NanoSystems – Anitha Thomas <i>Next-Generation Approaches for Accelerated Production of Nanoparticles for Use in Gene and Cell Therapies</i> Zymeworks – John Babcook <i>Zymeworks – Combining Platform Technologies to Generate Multifunctional “Best” and “First-in-Class” Therapeutics</i> Microbiome Insights – Pedro Dimitriu <i>Present and Future of Microbiome Profiling: Opportunities and Challenges</i>
3:15PM - 3:30PM	Coffee & Tea Break (Minoru Foyer)
3:30PM	Companies to give presentations (cont'd): Aspect Biosystems (3D Printing) – Sam Wadsworth <i>Using Microfluidics to 3D-print Living Functional Tissues</i> Pendant Bio – Shawn Gliner <i>Insights to Launching a Life Sciences Startup-Taking Invention to Innovation (The Things You Really Want to Know and Nobody Tells You but Want To Ask)</i> Zyus – Brent Zettl <i>The Dawning of the Cannabinoid Frontier</i>
4:30PM	PLENARY 2: Joseph Lehar , VP Data-Science, J&J (Room: Minoru A & B) <i>Data Science at Scale: Lessons from Past Projects and Plans for Janssen Oncology</i>
5:30PM - 7:00 PM	Welcome Reception: CSPS, CC-CRS (Room: Minoru C & D)

WEDNESDAY, MAY 22 - MORNING SESSIONS

7:00AM	Registration (Minoru Foyer) Poster Set up & Coffee/Muffins (Room: Minoru C & D)	
7:00AM - 9:00AM	Trainee Breakfast (Room: Westminster 1 & 2)	
8:55AM	Welcome: - CSPS - Cathy Lau, President (Room: Minoru A & B) - CC-CRS - Marc Gauthier, President	
9:00AM	PLENARY 3: Brett Finlay, UBC (Room: Minoru A & B) <i>Bugs as Drugs: Healthy Living and Aging with our Microbes</i>	
10:00AM - 10:30AM	Coffee & Tea Break: Posters, Exhibitors, & Networking (Room: Minoru C & D)	
10:30AM - 12:30PM	SESSION 1: 3D PRINTING (Room: Minoru A) <i>Chair: Tamer Mohamed, Aspect Biosystems</i>	SESSION 2: RADIOPHARMACEUTICALS FOR DIAGNOSIS AND THERAPY (Room: Minoru B) <i>Chair: Urs Hafeli, UBC</i>
	Ola Hermanson, Karolinska Institutet, Stockholm, Sweden Bioprinting for Stem Cell and Cancer Research in 2-3-4D: New Possibilities, New Problems	Tullio Esposito, UBC Diagnostic Imaging of the Immune System as a Precondition for Successful Immunotherapy
	Stephanie Willerth, University of Victoria 3D Bioprinting Tools for Engineering Complex Neural Tissues from Stem Cells	Cristina Rodriguez-Rodriguez, UBC Dual Labelling and SPECT Imaging of a Drug and its Drug Delivery System Concurrently
	Orquidea (Orchid) Garcia, J&J, Irvine, CA How Johnson & Johnson is Using 3D Printing Technologies to Disrupt and Evolve the Way We Create and Deliver Solutions to Our Patients and Consumers	Francois Benard, BC Cancer The Role of PET Radiopharmaceuticals in Oncology
		Paul Schaffer, TRIUMPH, Life Sciences Division Advances in Targeted Radiopharmaceutical Therapy. Using Radioisotopes to Fight Cancer
12:30PM - 1:30PM	Lunch break (Room: Minoru C & D) Posters, Exhibitors, and Networking	

WEDNESDAY, MAY 22 - AFTERNOON SESSIONS

1:30PM - 2:30PM	POSTER SESSION (Room: Minoru C & D)	
2:30PM	PLENARY 4: Imogen Coe, Ryerson University (Room: Minoru A & B) <i>The Value of EDI to the Pharmaceutical Sciences</i>	
3:30PM - 3:45PM	Coffee & Tea Break: Posters, Exhibitors, & Networking (Room: Minoru C & D)	
3:45PM - 5:45PM	SESSION 3: MICROBIOMES (Room: Minoru A) <i>Chair: Bastien Castagner, McGill University</i>	SESSION 4: EMBEDDING EQUITY, DELIVERING DIVERSITY, SAVING SCIENCE (Room: Minoru B) <i>Co-Chairs: Christine Allen, University of Toronto & Rebecca Yu, Takeda Canada</i>
	Bastien Castagner, McGill University Glycan-based Prebiotic Approach to Modulate the Composition of the Gut Microbiota	Imogen Coe, Ryerson University Embedding Equity, Delivering Diversity, Saving Science
	Dina Kao, University of Alberta Fecal Transplant in the Modern Era	Rebecca Yu, Takeda Canada Building Equity and Diversity in Biopharma: Reflections from my Journey
	Jane Foster, McMaster University Microbes and Mood - Emerging Roles for the Microbiome in Mental Health	James Evans, University of Toronto Progress Not Perfection; An Early Stage LGBTQ Researcher's Perspective on the STEM Field
	Meriem Messaoudene, Université de Montréal The Gut Microbiota in Cancer Immunology the Present, the Future	Panel Discussion
6:00PM	Young Scientists Network – Networking Event (Room: Minoru C & D)	

THURSDAY, MAY 23 - MORNING SESSIONS

7:00AM	Registration (Minoru Foyer) Poster Set up & Coffee/Muffins (Room: Minoru C &D)	
8:30AM - 9:30AM	PLENARY 5: Marcel Bally, BC Cancer (Room: Minoru A & B) What Drives Innovation: The Canadian Touch on Liposomal Therapeutics	
9:30AM - 10:00AM	Coffee & Tea Break: Posters, Exhibitors, & Networking (Room: Minoru C &D)	
10:00AM - 12:00PM	SESSION 5: CELL THERAPY (CAR T AND STEM CELL) (Room: Minoru A) <i>Chair: Kevin Song, BC Cancer</i>	SESSION 6: CROSSING BIOLOGICAL BARRIERS / LYMPHATIC SYSTEM DRUG DELIVERY (Room: Minoru B) <i>Co-Chairs: Davide Brambilla, Université de Montréal & Azita Haddadi, University of Saskatchewan</i>
	Harindra Wijeyesundera, CADTH Health Technology Assessment of CAR T Treatment	Julien Gautrot, Queen Mary University of London Design of Polymeric Biointerfaces and Nanomaterials for Stem Cell Technologies
	Martin Vogel, Janssen Pharmaceutical, US JNJ-4528 – a B-Cell Maturation Antigen (BCMA) Targeting Chimeric Antigen Receptor (CAR)-T cell Therapy for the Treatment of Relapsed or Refractory Multiple Myeloma	Julien Nicolas, Université Paris-Sud Well-defined Polymer Prodrug Nanocarriers from the Drug-initiated Approach
	Ronan Foley, McMaster University Managing Patients Undergoing CD19 CART Therapy	Lisa Kaminskas, University of Queensland Approaches to Enhance Drug and Protein Trafficking Towards Lymphatic Sites of Cancer Metastasis
		Laird Forrest, Kansas University Development of Localized Immunochemotherapy in Canines with Spontaneous Cancers
12:00PM - 12:30PM	CSPS Award of Leadership in Canadian Pharmaceutical Sciences Lecture Reina Bendayan, University of Toronto (Room: Minoru A)	
12:30PM - 1:30 PM	Trainee Lunch and Learn (Room: Westminster 1 &2)	
12:30PM - 1:00 PM	Annual General Meetings: CSPS (Room: Minoru A) CC-CRS (Room: Minoru B)	
12:30PM - 1:30PM	Lunch break (Room: Minoru C & D) Posters, Exhibitors, and Networking	

THURSDAY, MAY 23 - AFTERNOON SESSIONS

1:30PM - 2:30PM	POSTER SESSION (Room: Minoru C & D)	
2:30PM - 5:00PM	SESSION 7: IMMUNO-ONCOLOGY (Room: Minoru A) <i>Chair: Barbara Melosky, BC Cancer</i>	SESSION 8: MEDICAL CANNABIS: NEXUS OF SCIENCE, REGULATION AND PATIENT RIGHTS (Room: Minoru B) <i>Co-Chairs: Lakshmi Kotra, University of Toronto and Jane Alcorn, University of Saskatchewan</i>
	Barbara Melosky, BC Cancer Immunotherapy (IO) in Lung Cancer	Lakshmi Kotra, University of Toronto Medical Cannabis: Nexus of Science, Regulation and Patient Rights
	Daniel Renouf, BC Cancer Immuno-Oncology in Pancreatic Cancer	Jane Alcorn, University of Saskatchewan Cannabidiol in Refractory Epileptic Encephalopathy: Outcomes of the CARE-E study
3:30PM - 4:00PM	Coffee & Tea Break: Posters, Exhibitors, & Networking (Room: Minoru C & D)	
	Peter Black, BC Cancer Immune Checkpoint Blockade in Bladder Cancer	Soumyajit Majumdar, The University of Mississippi Critical Considerations in the Development of Cannabinoid based Drug Products
	Christian Kollmannsberger, BC Cancer - Vancouver Cancer Ctr Immunotherapy in Metastatic Kidney Cancer: Old Dogs, New Tricks	Deepak Anand, CFAMM Update on Medical Cannabis in Canada
6:00PM	Symposium Gala and Awards Dinner (Room: Elmbridge)	

FRIDAY, MAY 24 - MORNING SESSIONS

7:30AM	Registration (Minoru Foyer) <i>Coffee/Muffins</i> (Room: Minoru C &D)	
8:30AM - 9:30AM	PLENARY 6: Andrew Fursman, 1QBit (Room: Minoru A &B) The Landscape of Opportunities for AI and Machine Learning in Health Care and Drug Discovery	
9:30AM - 10:00AM	CSPS/GSK Early Career Award Lecture Nicolas Bertrand, Universite Laval (Room: Minoru A &B)	
10:00AM - 10:30AM	Coffee & Tea Break: Networking (Room: Minoru C &D)	
10:30AM - 12:30 PM	SESSION 9: ARTIFICIAL INTELLIGENCE IN RESEARCH (Room: Minoru A) <i>Chair: Corey Nislow, UBC</i>	SESSION 10: NON-VIRAL GENE DELIVERY (Room: Minoru B) <i>Co-Chairs: Shyh-Dar Li, UBC and Afsaneh Lavasanifar, University of Alberta</i>
	Maritza Hernandez-Gaete & Arman Zaribafiyani, 1QBit, Computational Approaches to Drug Design	Pieter Cullis, UBC Design of Lipid Nanoparticles for Gene therapies
	Jaspreet Oberoi, 1Qbit Artificial Intelligence (AI) in Healthcare	Colin Ross, UBC Working Towards New Therapeutic Genome Editing Strategies for the Treatment of Genetic Diseases: Lessons Learned and Work in Progress
		Mano Manoharan, Alnylam Pharmaceuticals RNAi Therapeutics Delivered
		Leaf Huang, University of North Carolina Gene Delivery to Treat Liver Metastasis of Colorectal Cancer
12:30PM	Trainee Poster Awards: Announcement and Presentation of Awards (Room: Minoru A)	
1:00PM	Symposium Concludes	