

Research Day



March 1, 2023 | 1:00 pm - 5:00 pm | Apotex Building - Bannatyne Campus

Recognizing accomplishments in Research and Innovation in the College of Pharmacy,
University of Manitoba

2023 Morris D. Faiman Lectureship

TECHNOLOGICAL APPROACHES TO ACCELERATE DEVELOPMENT OF ADVANCED DRUG DELIVERY STRATEGIES

Wednesday, March 1, 2023 | 1:15 pm | 050 Apotex Building

DR. CHRISTINE ALLEN, PhD

Professor, Leslie Dan Faculty of Pharmacy, University of Toronto

Vice President Ecosystem Development, adMare Bioinnovations

President, Controlled Release Society (CRS)

Past President, Canadian Society for Pharmaceutical Sciences (CSPS)



Dr. Christine Allen is the inaugural Vice-President Ecosystem Development at adMare Bioinnovations. Dr. Allen is a Full Professor at the University of Toronto where she has spent 20 years and held senior leadership roles including most recently Associate Vice-President and Vice Provost Strategic Initiatives. Dr. Allen is an expert in drug formulation with more than 150 publications in this area. She is the co-founder of Nanovista Inc., a company focused on high-precision, image-guided cancer therapy. She is a fellow of AIMBE, CRS, CSPS and CAHS as well as the President of CRS.

Dr. Allen's speech will focus on:

- To evaluate the use of AI, machine learning and experimental automation to fast-track drug formulation development*
- To explore mild hyperthermia as a means to overcome limitations associated with nanomedicines*

PROGRAM

TIME		LOCATION
1:00pm – 1:15pm	Introduction by Dean, Welcome by Chair	050 Apotex Centre
1:15pm – 2:15pm	<p>Morris D. Faiman Lecture Professor Christine Allen, University of Toronto Talk title: <i>Technological Approaches to Accelerate Development of Advanced Drug Delivery Strategies</i></p>	050 Apotex Centre
2:15pm – 3:15pm	<p>Oral Presentations by graduate students and postdoc fellow. (12-minute presentation + 3-minute Q&A)</p> <p>2:15 pm – 2:30 pm Meher Kantroo (Ph.D. Student) Title: <i>Investigating the role of astrocyte NMDA receptors in modulating sensory neuronal activity</i></p> <p>2:30 pm – 2:45 pm Urmi Das (Post-Doc Fellow) Title: <i>Association between schizophrenia polygenicity and higher treatment resistance: work in progress</i></p> <p>2:45 pm – 3:00 pm Quinn Tays (M.Sc Student) Title: <i>Impact of symptom duration on clinical outcomes in hospitalized, non-critically ill patients with COVID-19;secondary analysis of an international multi-platform RCT</i></p> <p>3:00 pm – 3:15 pm Laila Aboulatta (Ph.D Student) Title: <i>Preterm birth and stillbirth rates associated with socioeconomic disparities during COVID-19 pandemic: A population-based study</i></p>	050 Apotex Centre
3:15pm – 4:15pm	<p>Poster Session (2nd/3rd floor atrium) Refreshments available -3rd floor atrium</p>	2 nd Floor Atrium 3 rd floor atrium Apotex Centre
4:15pm – 5:00pm	Winners Announced, Closing Remarks by Chairs	3 rd Floor Atrium Apotex Centre

POSTERS

POSTER#	Abstract Title	Name
#1 <i>2nd floor Atrium</i>	Polygenicity of Cognitive Ability and Educational Attainment in Multiple Sclerosis	Gerald Trojillo <i>MSc student</i>
#2 <i>2nd floor Atrium</i>	Antidepressant Prescribing for Mood and/or Anxiety Disorder in Manitoba, Canada: A Population-Based Cohort Study of Pharmacotherapy Persistence, Switching, and Combination/Augmentation Strategies	Md Abdul, Aziz <i>MSc student</i>
#3 <i>2nd floor Atrium</i>	Time-to-Treatment and Treatment Discontinuation of Direct-Acting Antivirals for Hepatitis-C in Manitoba	Sai Gudi <i>PhD student</i>
#4 <i>2nd floor Atrium</i>	Marijuana use and the risk of incident venous thromboembolism in people with hiv	Lara Haidar <i>PhD student</i>
#5 <i>2nd floor Atrium</i>	Antiseizure medication use in pregnancy and adverse neonatal birth outcomes: a population-based cohort study	Alekhya Lavu <i>PhD student</i>
#6 <i>2nd floor Atrium</i>	Mental Health First Aid Training in community/primary care pharmacy practice: An evaluation of the value and impact of mental health first aid training on patient care from the perspective of pharmacists	Clarisse Romera <i>MSc student</i>
#7 <i>3rd floor Atrium</i>	The effects of small molecule peptide inhibitors on amyloid formation and beta-cell death – Implications in clinical islet transplantation	Danish Malhotra <i>MSc student</i> <i>*on behalf of Darci Mowatt</i>
#8 <i>3rd floor Atrium</i>	The role of MIF in stabilizing CD74: A novel mechanism contributes to the development of NAFLD	Liujun Chen <i>PhD student</i>
#9 <i>3rd floor Atrium</i>	The cellular mechanisms of amyloid-induced β -cell death in human islets – Potential role of islet-derived extracellular vesicles	Danish Malhotra <i>MSc student</i>
#10 <i>3rd floor Atrium</i>	Brain pericytes and Ca ²⁺ signaling in an Alzheimer's Disease mouse model	Shahin Shabanipour <i>PhD student</i>
#11 <i>3rd floor Atrium</i>	Pharmacological blockade of interleukin-1 β action reduces extracellular amyloid-induced β -cell death	Jennifer Einarson <i>Undergraduate student</i>
#12 <i>3rd floor Atrium</i>	Lipid Nanoparticles to enable safe gene therapies for congenital diseases	Amr Abostait <i>MSc student</i>
#13 <i>3rd floor Atrium</i>	Aneuploid and Euploid Dynamic Vessel-on-a-Chip Models for Evaluating Cell and Gene level Interactions of Quantum Dots	Yasmin Abdelkader <i>PhD student</i>
#14 <i>3rd floor Atrium</i>	Development of a dynamic placenta-on-a-chip model of preeclampsia for the in vitro evaluation of CSA-coated liposomal nanocarriers	Luis Perez Davalos <i>MSc student</i>

#15 <i>3rd floor Atrium</i>	The impact of Static Pressure on Trophoblast Syncytialization	Mahmoud Abdelkarim <i>PhD student</i>
#16 <i>3rd floor Atrium</i>	Adverse Drug Effects of Vancomycin, Daptomycin, and Ertapenem in the WRHA Community Intravenous Program	Christy Choi (<i>PharmD student</i>), Rebecca Zimmer (<i>PharmD student</i>), Courtney Lawrence (<i>PhD student</i>)
#17 <i>3rd floor Atrium</i>	Development of pharmacological strategies to reduce amyloid formation and β -cell death in human islets – implications in type 2 diabetes and islet grafts	Mukta Moni <i>MSc student</i>
#18 <i>3rd floor Atrium</i>	Inhibitors of intracellular islet amyloid formation protect β -cells from amyloid toxicity	Rushie Tyagi <i>Undergraduate student</i>