



Research Day

March 14, 2024 | 1:00 pm – 5:00 pm
Apotex Building – Bannatyne Campus

Recognizing accomplishments in research and innovation
in the College of Pharmacy, University of Manitoba.

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**University
of Manitoba**

**Rady Faculty of
Health Sciences**

PROGRAM

- 1:00 pm** Welcome Address by the Dean and Chair
Dr. Lalitha Raman-Wilms
Dr. Kaarina Kowalec
050 Apotex Centre
- 1:15 pm** Dr. Daniel Mueller, University of Toronto
“Clinical Application of Pharmacogenomics in Psychiatry”
Invited speaker (45 min present + 15 min Q&A)
050 Apotex Centre
- 2:15 pm** Dr. Anna Chudyk, University of Manitoba
“Patient engagement in research: contexts, applications, and future Directions”
Faculty speaker (45 min present + 15 min Q&A)
050 Apotex Centre
- 3:15 pm** Poster Session
3rd floor atrium—Apotex Centre
- 4:15 pm** BREAK
Judges select poster winner
- 4:30 pm** Poster Award, Closing remarks
Dr. Kaarina Kowalec
3rd floor atrium—Apotex Centre

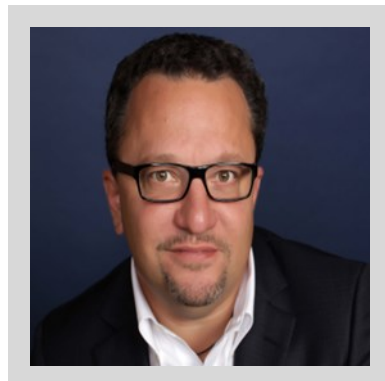


KEYNOTE SPEAKER

Clinical Application of Pharmacogenomics in Psychiatry

Thursday, March 14, 2024 | 1:15 pm – 2:15 pm

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Speaker: Daniel Mueller, MSc, MD, PhD, MHS
Professor, University of Toronto

Dr. Daniel Mueller is a Professor at the Department of Psychiatry at the University of Toronto and a Senior Scientist at the Centre for Addiction and Mental Health. He is Head of the Pharmacogenetics Research Clinic at CAMH where he developed the first pharmacogenetic testing service for patients with psychiatric conditions in Canada.

Dr. Mueller's overarching research goal is to advance precision medicine using genomics and computer sciences. He has published over 300 peer-reviewed articles and received international recognitions for his innovative research and implementation strategies on pharmacogenetics.

Dr. Mueller is President of the Canadian College of Neuropsychopharmacology and member of the Clinical Pharmacogenetics Implementation Consortium where he contributed to pharmacogenetic implementation guidelines for antidepressants, opioids, atomoxetine, and mood stabilizers.

FACULTY PROGRAM

Patient engagement in research: contexts, applications, and future directions

Thursday, March 14, 2024 | 2:15 pm – 3:15 pm

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Speaker: Anna M. Chudyk, MSc, PhD
Assistant Professor, College of Pharmacy, University of Manitoba

Dr. Anna Chudyk obtained Bachelors of Health Sciences and Masters of Epidemiology and Biostatistics degrees from the University of Western Ontario and a Doctorate in Experimental Medicine from the University of British Columbia. Her research career is marked by prestigious National level awards and recognitions, including a Charles Best Canada Graduate Scholarship, a Vanier Canada Graduate Scholarship, and most recently Phase 1 and 2 Patient-Oriented Research Awards - Transition to Leadership Stream Fellowships, all from the Canadian Institutes of Health Research.

Dr. Chudyk's presentation will:

- Provide an overview of the contexts underlying patient engagement in research
- Identify key considerations for engaging patients in research
- Describe applications of key individual and systems level future directions for patient engagement in research

POSTERS

POSTER#	Poster Title	Name
#1	Prenatal Exposure to Gabapentin and the Risk of Autism Spectrum Disorder in Children	Akinola, Samuel <i>MSc. student</i>
#2	Describing Antidepressant Persistence in Mood and/or Anxiety Disorders: A Retrospective Observational Study Using Administrative Claims Data in Manitoba	Aziz, Md Abdul <i>PhD. student</i>
#3	Omega-3 fatty acids modify monocyte glucose metabolism through mitochondrial bioenergetic rewiring	Byun, Michael <i>MSc. student</i>
#4	Association between Polygenicity of Schizophrenia & Increased Resistance to Treatment	Das, Urmi <i>Post-doc Fellow</i>
#5	Surveying Healthcare and Recovery Experiences with Opioid Agonist Therapy: A Community-Based Participatory Research Study (SHARE-OAT)	Esteban Villarba, Jenna <i>MSc. student</i>
#6	COVID-19 vaccine uptake rates and determinants among pregnant population	Farooq, Faiza <i>PhD. student</i>
#7	The role of Pref-1 in non-inflammatory insulin resistance	Huang, Yiheng <i>PhD. student</i>
#8	A kinetic study of DOT1L with mass spectroscopy	Ige, Olufola <i>PhD. student</i>
#9	Contribution of astrocytic N-methyl-D-aspartate (NMDA) receptors in modulating cortical neuronal function via purinergic signalling	Kantroo, Meher <i>PhD. student</i>
#10	Gabapentin Use During Pregnancy and Adverse Neonatal Birth Outcomes: A Canadian multi-site Population-Based Cohort Study	Lavu, Alekhya <i>PhD. student</i>
#11	Neutralizing interleukin (IL)-1 β reduces formation of islet amyloid polypeptide aggregates in human islets during ex vivo culture	Malhotra, Danish <i>MSc. student</i>
#12	Multiple sclerosis, comorbid psychiatric conditions, and the association with levels of plasma neurofilament light chain protein	Safa, Mira <i>MSc. student</i>
#13	Treatment with a glucagon-like peptide-1 agonist reduces formation of toxic islet amyloid polypeptide oligomers and improves beta-cell survival in human islets during pre-transplant culture	Sawatzky, Janessa <i>Undergraduate student</i>
#14	The Impact of COVID-19 Health Measures on the Utilization of Antipsychotics in Schizophrenia in Manitoba – A Population-Based Study Using Administrative Data	Shirinbakhshmasoleh, Mina <i>MSc. student</i>
#15	The effects of elevated glucose on islet-derived extracellular vesicles – Implication in type 2 diabetes	Tyagi, Rushie <i>MSc. student</i>
#16	Evaluating Covalent Engagement of Boron-Modified Topoisomerase I Inhibitors as Chemotherapeutic Agents	Vuong, Billy <i>PhD. student</i>