

## DAY ONE: MONDAY, AUGUST 12<sup>th</sup>, 2024

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- 10:00-11:00**      **Registration and poster setup**  
Summerlee Science Complex Waasamowin [formerly: atrium]
- 11:00-12:00**      **Talks session 1: Neurons and neuronal diseases**  
Alexander Hall 200
- 11:00-11:15      Welcome address and opening remarks
- 11:15-11:30      Manisha Yadav (University of Toronto)  
*Huntingtin is an RNA-binding protein and participates in NEAT1-mediated paraspeckles*
- 11:30-11:45      Nisandi Herath (University of Guelph)  
*S-Acylation of glycolytic enzymes is required for this association with vesicles in neurons*
- 11:45-12:00      Fatema Nakhunda (York University)  
*Investigating Pannexin1 channels in synaptic plasticity and memory by mapping transcriptional responses to neuronal activity*
- 12:00-1:00**      **Lunch**  
Summerlee Science Complex Waasamowin [formerly: atrium]
- 1:00-3:00**      **Talks session 2: Viruses, nanoparticles, and oligonucleotide dynamics**  
Alexander Hall 200
- 1:00-1:05      Session welcome
- 1:05-1:55      **Keynote 1:** Stephanie DeWitte-Orr (Wilfrid Laurier University)
- 1:55-2:10      Agnitha Xavier (University of Ottawa)  
*Calmodulin signalling is required for PI(3, 5)P<sub>2</sub>-mediated Ebola virus entry*
- 2:10-2:25      Marty VandenBroek (Queen's University)  
*Circular RNA profiling identifies circ5078 as a BMPR2-derived regulator of endothelial proliferation and stress responses*
- 2:25-2:40      Nikita Chugh (Western University)  
*The deletion of CHCHD2 and CHCHD10 homolog rescues  $\alpha$ -syn and TDP-43 toxicity*
- 2:40-2:55      Bethel Iwuji (Wilfrid Laurier University)  
*Chitosan nanoparticles protect dsRNA, enhance uptake through class A scavenger receptors, and potentiate immune responses in melanoma cells*
- 3:00-5:00**      **Coffee, snacks, posters, and vendor show 1**  
Summerlee Science Complex Waasamowin [formerly: atrium]

**5:00-6:20      Talk session 3: Cell signaling and organelle dynamics**

Alexander Hall 200

5:00-5:05    Session welcome

5:05-5:20    Natoya Peart (University of Waterloo)  
*Binding and Function – Investigating how loss of RNA binding protein ESRP1 compromises epithelial cell health*

5:20-5:35    Natalie Uzynski (Toronto Metropolitan University)  
*Nanoscale Oncogenic Signaling Organization in Breast Cancer Cells Revealed by Advanced Microscopy Technologies*

5:35-5:50    Ashwin D'Sousa (University of Toronto and the Hospital for Sick Children)  
*Mutual dependence of Osbp and PI4KII in the maturation of regulated secretory granules*

5:50-6:05    Andrey Petropavlovskiy (University of Guelph)  
*S-acylation as a regulator of localization and function of endoplasmic reticulum chaperone GRP78 (BiP)*

6:05-6:20    Shayne Oberhoffner (Wilfrid Laurier University)  
*Nanoparticles protect long dsRNA and CpG-ODNs during delivery to salmonid cell lines*

**6:30-10:00**

**Dinner and reception**

Brass Taps Pub at the University Centre (2<sup>nd</sup> floor)

## DAY TWO: TUESDAY, AUGUST 13<sup>th</sup>, 2024

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- 8:00-8:30**      **Registration and poster setup**  
Summerlee Science Complex Waasamowin [formerly: atrium]
- 8:30-9:50**      **Talks session 4: Cell biology of diseases**  
Alexander Hall 200
- 8:30-8:35      Session welcome
- 8:35-8:50      Casey Williamson (University of Guelph)  
*Reduced nephrin tyrosine phosphorylation impairs podocyte force transmission and accelerates detachment in disease*
- 8:50-9:05      Jennifer Holborne (University of Guelph)  
*Anticancer Potential of Polyphenol Flavonoids against Glioblastoma Multiforme*
- 9:05-9:20      Katarina Micovic (Toronto Metropolitan University)  
*Discovery of Novel Small Molecule Inhibitors of the MICAL Protein Family: Monooxygenase Enzymes Associated with Metastatic Breast Cancer*
- 9:20-9:35      Yasmeen Alshehabi (University of Waterloo)  
*Rescue of dysfunctional autophagy via a novel small molecule in Huntington disease*
- 9:35-9:50      Jack Campbell (Trent University)  
*The Effects of Cardiac Cachexia on the Myogenic Capacity of Satellite Cells*
- 9:50-11:00**      **Coffee break and vendor show 2**  
Summerlee Science Complex Waasamowin [formerly: atrium]
- 11:00-12:20**      **Talks session 5**  
Alexander Hall 200
- 11:00-11:50      Lightning talks  
Rachil Aldbai (Queen's University)  
Kenneth Gabriel Antenor (Toronto Metropolitan University)  
Dominique Daniels (Wilfrid Laurier University)  
Li Diao (Unity Health and University of Toronto)  
Tyler Henderson (Lunenfeld-Tanenbaum Research Institute)  
Kaslyn Kallio (University of Guelph)  
Danielle Olding (Toronto Metropolitan University)  
Cathy Qian (University of Guelph)  
Ashmi Shah (Western University)  
Sofia Skebo (Queen's University)
- 11:50-12:05      Brooke Greene (Lunenfeld-Tanenbaum Research Institute)  
*Deficiencies in the mitochondria-associated membrane (MAM) component FAM105A disrupt macrophage homeostasis and cause fibrostenotic inflammatory bowel disease (IBD) in mice and humans*
- 12:05-12:20      Georgina Gardner (Brock University)  
*Culture Shock! Investigating the Significance of Physiological TumourLike Conditions on Cultured Cancer Cells*

- 12:00-1:00**      **Lunch**  
Summerlee Science Complex Waasamowin [formerly: atrium]
- 1:00-3:00**      **Poster session and vendor show 3**  
Summerlee Science Complex Waasamowin [formerly: atrium]
- 3:00-5:00**      **Talk session 6: Mitochondria**  
Alexander Hall 200
- 3:00-3:05    Session welcome
- 3:05-3:55    **Keynote 2:** Heidi McBride
- 3:55-4:10    Joshua Pemberton (Western University)  
*Outer Membrane Lipid Composition Directly Regulates Mitochondrial Remodeling*
- 4:10-4:25    Maria Narciso (Toronto Metropolitan University)  
*Loss of PIKfyve activity affects mitochondria morphology, dynamics, and function*
- 4:25-4:40    Monica Opoka (Queen's University)  
*Mitochondrial Dynamics Modulate Activation of the Integrated Stress Response*
- 4:40-4:55    Rohankrishna Harikumar (University of Toronto and Unity Health)  
*The RhoA-ROCK pathway acts as a key mediator of mitochondrial remodeling in Polycystic Kidney Disease*
- 5:00-5:30**      **Awards and closing remarks**  
Alexander Hall 200