



Registration (Pond Inlet entrance) 8:30 - 9:30 AM

Opening Remarks 9:30 - 9:45 AM

Morning Keynote presentation 9:45 - 10:45 AM

Coffe Break 10:45 - 11:10 AM

Three Concurrent Oral Presentation Sessions 11:15 AM - 12:45 PM

Location: Pond Inlet

Topic: Molecular & Neurobiology

Time	Presenter	Title
11:15	Zoe Gagnon	Investigating Postsynaptic Effects of Neuropeptides on <i>Drosophila</i> Muscle Cells
11:30	Ishan Herath	Deep Proteome Analysis: Using a Pulsed Electric Field to Enhance Proteoform Resolution
11:45	Naomi Vos	Sex Differences in Sympathetic Neuronal Discharge Patterns During Isometric Handgrip Exercise in Humans: A Study Proposal
12:00	Katrina Carbonara	Sometimes faster can be better: further improving 2DE-based quantitative top-down proteomics
12:15	Georgina Gardner	Rapid medium nutrient depletion to below the physiological range by cancer cells cultured in Plasmax
12:30	Alicia Piazza	Brain cell regeneration at a snail's pace: How does Vitamin A metabolite direct outgrowth?

Location: MC D404

Topic: Plant & Insect Biology

Time	Presenter	Title
11:15	Jerry Akanwari	Nematodes as Biological Indicators of Soil Health
11:30	Albert Wu	Kin recognition in an invasive perennial plant facilitates the success of subsequent generations
11:45	Nicholas Benton	The Attempted Rearing of a <i>Coquillettidia perturbans</i> (Culicidae) Colony in a Controlled Laboratory Environment
12:00	Alysha Gullion	Understanding the effect of in-row cover crop planting and its influence on invertebrate species
12:15		
12:30		

Location: MC D403

Topic: Animal Behaviour

Time	Presenter	Title
11:15	Jane Oleksiw	The influence of home cage design and enrichment on personality in the bearded dragon (<i>Pogona vitticeps</i>).
11:30	Melanie Denommé	Examining the assumption that interacting with barriers indicates a motivation to escape in bearded dragons (<i>Pogona vitticeps</i>)
11:45	Alex Popescu	The contribution of changes in social antipredator behaviour in American crows to their success in urban areas
12:00	Lyllian Corbin	Small males are the last to establish territories in the eastern carpenter bee
12:15	Alex Wilder	Effects of elevated rearing temperatures and generational time in captivity on the larval survival and quality of two strains of Ontario hatchery Brook trout (<i>Salvelinus fontinalis</i>)
12:30		

Lunch break (Cairns Atrium) 12:45 - 2:00 PM

Poster Session (Pond Inlet) 2:00 - 3:00 PM

Four Concurrent Oral Presentation Sessions 3:00 - 4:30 PM

Location: Pond Inlet

Topic: Computer Sciences

Time	Presenter	Title
3:00	Dipanzan Islam	Software Performance Analysis using Kernel Tracing
3:15	Mohaimin Ehsan	Priority-Based Resource Allocation Model for Vehicular Fog Computing
3:30	Madeline Janecek	Alignment of Multiple System-Level Traces for Anomaly Localization
3:45	Mohammed Adib Khan	System Fault Prediction Through Change Detection In System Metrics
4:00	Mubashir Murshed	Adaptive RL-based Decision for Efficient User-centric Virtual Cell Management and Handover in 5G Vehicular Networks
4:15	K M Nafiul Hassan	Mobility-based Multi-layered Caching and Data Distribution in Vehicular Fog Computing

Location: WH 203

Topic: Physical & Chemical Sciences

Time	Presenter	Title
3:00	Maneesha Wijesundara	Synthesis of π extended phenoxyl radical
3:15	Gabriele Delle Monache	Exploring the Cluster Chemistry of Pyridyl Alkoxide Ligands for the Discovery of 3d/4f Single Molecule Magnets
3:30	Zackery Watts	Synthesis of Redox-Active Phenalenol-Substituted Ligands in Rare Spin-Crossover Conducting Complexes
3:45	Connor Wilson	Vibrational Properties of High-Entropy Oxides
4:00		
4:15		

Location: WH 327

Topic: Cell Biology & Earth Sciences

Time	Presenter	Title
3:00	Jae Jung	Investigating mechanisms of Proctolin on muscle contraction and intracellular calcium-regulating pathway in <i>Drosophila</i> muscle
3:15	Ricardo Alva	Oxygen concentration differentially affects gene expression in distinct cancer cell lines
3:30	Marcelo Muniz Correa	Phosphoinositide signalling: testing the friendship between lipid transporters and lipid kinases
3:45	Bao Le	The patterns and contributions of DNA transposition to genetic polymorphism in humans
4:00	Michelle Pearce	Investigating climate and landscape-driven influences on thermokarst lake carbon cycling in Old Crow Flats, Yukon
4:15	Thomas Henley	Surface dust coverages on rock targets in Gale Crater, Mars: Influence of seasonal wind variability, topographic control, and proximity to eolian sand fields



Location: TH 243

Topic: Mathematical & Computer Sciences

Time	Presenter	Title
3:00	Pranjal Chakraborty	Root Cause Analysis of Memory Issues in Enterprise Softwares
3:15	Liam McDevitt	A Framework for Meta-heuristic Parameter Performance Prediction Using Fitness Landscape Analysis and Machine Learning
3:30	Nicholas Aksamit	Cooperative Multi-objective Particle Swarm Optimization and Differential Evolution for Drug Design
3:45	Fatemeh Hasheminejad	Heterogeneous Mixed Populations of Best-responders and Imitators In a Co-ordination Population: Equilibrium, Convergence and Stability
4:00	Madiha Mariam Ahmed	Research on Deep Clustering for High-Dimensional Molecular Data using Transformers and Equivariant Neural Networks followed by Data Visualization - (Survey of Molecular Representations for Deep Clustering)
4:15		

Coffee Break (Pond Inlet) 4:30 - 4:45 PM

Afternoon Keynote presentation (Pond Inlet) 4:45 PM

Trivia and Raffle Games (Pond Inlet) 5:45 PM

Awards Ceremony & Closing Remarks (Pond Inlet) 6:00 - 6:30 PM