Biology Graduate Symposium 2022 Schedule of Speakers

Time	April 28, 2022		
9:00	Opening & Welcome – Dr. Moira Glerum & Rachel Beaver		
	Coorien 4	Session 2	
	Session 1	Chair: Alex Umbach	
0-00	Chair: Alexander Douglas		
9:30	Julia Sunga The role of social preferences in the organization of a gregarious mammal colony	Yifan Yang A resampling method for RNA-seq analysis	
9:45	Danny McIsaac Local and landscape drivers of frog communities in urban stormwater management facilities	Nilanth Yogadasan A machine learning approach identifies plastomic predictors of C4 photosynthesis in PACMAD grasses	
10:00	Gwynne Domashinski Fatty adaption: Patterns in energy storage in swarming little brown bats a decade after white-nose exposure	Harold Hodgins Discovery of ancient neurotoxins	
10:15	Sean McLay Indications of benthic macroinvertebrate assemblage recovery following wastewater treatment upgrades	Sean Newbury Transactivation of PDGFRα	
10:30		Veronica Viljakainen Elucidating microbial plastic degrading enzymes (PDEs) using a metagenomics- driven approach	
10:45	Break		
11:00	Keynote Speakers – Dr. Ashley Ross and Dr. Matthew McLeod		
12:00	Lunch Break		

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	Session 3	Session 4
	Chair: Rachel McNamee	Chair: Jersey Fontz
1:00	Patrick Breadner The partitioning behaviour of SARS-CoV-2 in wastewater	Britney Firth Seasonal and environmental effects on upper thermal limits and oxygen tolerances of Eastern Sand Darter (Ammocrypta pellucida)
1:15	Brian Youden Multifunctional gold-liposomes as an all-in-one platform for radiotherapy	Xiaoqing Dang Development of diagnostic strategies for salmonidae diseases based on Oncorhynchus mykiss culture Freshwater samples
1:30	Jessica Luc Profiling the host transcriptome response to SARS-CoV-2 and its intrahost genetic diversity	Rachel Dawe Impacts of wastewater treatment plant effluent and pharmaceutical exposure on innate cytokine expression of darters (Etheostoma spp.) in the Grand River watershed
1:45	Emily Baker Investigating the role of the transcription factor hindsight in a notch-induced tumour model	Mehdi Moslemi Aqdam Understanding among-lake variability of fish mercury concentrations in the Canadian subarctic
2:00	Rohini Prakash Construction and optimization of a sDNA vector production system for gene therapy platform	Marissa Zago Effects of invasive <i>Phragmites australis</i> management on avian species diversity in the coastal wetlands of Long Point, Ontario
2:15	Rebecca Quinn Characterization of the mechanistic roles of Rif1-Glc7 in DNA double- strand break	Madeleine Prater Arctic marine food web structure
2:30		Break

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	Session 5	Session 6
	Chair: Michelle McKnight	Chair: Spencer Weinstein
2:45	Adrian Van Dyk The Interaction of the Escherichia coli CP-Lyase and shikimate pathways with glyphosate	Hadeel Abed Characterizing the seasonal presence of cyanobacterial toxin & nitrogen-fixing genes in an oligotrophic watershed using metagenomic analyses
3:00	Nicole Fraser Crystal structure of a fungal polyglycine hydrolase using a RoseTTAFold model	Hannah Thibault Reconstructing past variation in lake water balances to identify the role of a shifting hydroclimate at watersheds upstream of the drying Peace-Athabasca Delta
3:15	Cody Collis Viral communities in freshwater environments investigated through metagenomic analysis of Big Turkey Lake, Ontario	Lauryn Pinks Light and nutrient availability interactively mediate heterotrophic carbon processing in stream biofilms through algal priming: insights from artificial and natural streams
3:30	Nikhil George Virus-host interactions in a municipal landfill include non-specific viruses, hyper-targeted viral populations, and interviral conflicts	Lauren Banks Does scale matter in determining the role of groundwater input as a driver of ecological function and structure in a headwater stream network?
3:45	Closing Remarks – Rachel Beaver & Dr. Moira Glerum	
5:00	End of Symposium – Thank you	