

Biology Graduate Symposium 2021 Schedule of Speakers

Time	April 29, 2021	
9:00	Opening & Welcome – Dr. Moira Glerum & Isabel Hilgendag	
	Session 1	Session 2
	Chair: Julia Sunga	Chair: Alexander Douglas
9:15	<p style="text-align: center;">Adam Grotolli</p> Declining mercury concentration with age in the fur of an insectivorous terrestrial mammals (<i>Myotis lucifugus</i>)	<p style="text-align: center;">Alex Umbach</p> Skin archaea are rare and uncommon members of the mammalian skin microbiome
9:30	<p style="text-align: center;">Isabel Hilgendag</p> Arctic char (<i>Salvelinus alpinus</i>) food web mercury biomagnification in the inner Frobisher Bay, NU	<p style="text-align: center;">Elaine Novik</p> The Microbiomes of North American Freshwater and Marine Algae
9:45	<p style="text-align: center;">Bronte McPhedran</p> Use of otolith microchemistry in a study of heavy metal contamination in fish from a natural tundra wastewater wetland: a case study in Baker Lake, NU, Canada	<p style="text-align: center;">Ghadeer Aljoudi</p> Identification and Detection of Microbial and Cyanobacterial communities in The Glenmore Reservoir
10:00	<p style="text-align: center;">Nicole Gauvreau</p> Neurodegenerative impacts of wastewater effluent pharmaceuticals in Darters (<i>Etheostoma</i> spp.) in the Grand River	<p style="text-align: center;">Ellen Cameron</p> Evaluating Diurnal Trends in Cyanobacterial Communities – Implications for Monitoring Protocols
10:15	<p style="text-align: center;">Dongchang Yang</p> Surface-enhanced Raman Spectroscopy for Environmental Analysis: Solvent Effect	<p style="text-align: center;">Timothy Shardlow</p> Identification and characterization of toxic cyanobacteria in two maritime watersheds within forested regimes in North America
10:30	<p style="text-align: center;">Joseph Varga</p> Characterizing the antibacterial, antiviral and immunomodulatory roles of a novel antimicrobial peptide, rainbow trout tripartite motif-related peptide (rtTRIM)	<p style="text-align: center;">Lisa Johnson</p> Microbial function and diversity in biofilms obtained from a landfill gas capture system
10:45	Break	
11:00	Keynote Speaker – Dr. David Shiffman	
12:00	Lunch Break/Meet Dr. David Shiffman	

	Session 3	Session 4
	Chair: Britney Firth	Chair: Brian Dixon
1:00	<p>Cory Savage Application of artificial substrate samplers to assess enrichment of metals of concern by river floodwaters to lakes across the Peace-Athabasca Delta</p>	<p>Huming Guo The Effects of Water Temperature and Selective Breeding on Vaccine Efficacy and Immune Response in Rainbow Trout (<i>Oncorhynchus mykiss</i>)</p>
1:15	<p>Kathleen Brown Evaluating the effects of local climate change on lake-water balance at the Peace-Athabasca Delta using paleolimnology</p>	<p>George Heath Development of protein-level assays to assess immune status in salmonids</p>
1:30	<p>Mia Stratton Investigating the role of an upstream watershed on ice-jam flood regimes at the Peace-Athabasca Delta</p>	<p>Saeer Adeel A genetic approach to decipher the phenotypic abnormalities of 5'-methylthioadenosine toxicity</p>
1:45	<p>Caleb Girard Upstream 'trigger tributary' influence on temporal variation of ice-jam induced flooding at the Peace-Athabasca Delta using paleolimnological reconstructions</p>	<p>Alyssa Overton A Study on a Protein Candidate for the Novel C-Terminal Transit Peptide OEP Targeting Pathway</p>
2:00	<p>Anita Ghosh Delineating a zone of hydrological change at the Peace-Athabasca Delta associated with upstream regulation of Peace River flow using paleolimnological records</p>	<p>Lucia Liao Characterization of protein S-acylation in autophagy</p>
2:15	<p>Wathiq Mohammed Use of artificial-substrate samplers to identify relations between periphytic diatom community composition and hydro-limnological conditions in shallow thermokarst lakes of Old Crow Flats, Yukon Territory (Canada)</p>	<p>Teshager Kefale Efficient production of mannitol and amino acids using <i>Yarrowia lipolytica</i></p>
2:30		<p>Anna Jewczynko Structural and Enzymatic Comparison of <i>Faecalibacterium prausnitzii</i> α-glycosidases and Sucrase-Isomaltase</p>
2:45	Break	

	Session 5	Session 6
	Chair: Liam McGuire	Chair: Moira Glerum
3:00	Erika Burton Assessment of remote Patagonian riverine fish communities using environmental DNA	Adeline Suko Three-dimensional modelling of the avian crystalline lens
3:15	Madison Brook Using air temperature to predict the age at maturity of Asian Carp	Richard Do α -parvin in <i>Xenopus laevis</i>
3:30	Keith McAllister Assessing invasive Round Goby (<i>Neogobius melanostomus</i>) impacts on native benthic fish communities in two Great Lakes tributaries	Emma Collington Identifying unique domain fusions of redox proteins in parasitic worms
3:45	Khawlah Hawsawi Cryptic species complex <i>Hyaella azteca</i> in The North American Great Basin	Bradley D'souza Characterization of Mrc1 Origin Timing in <i>Saccharomyces cerevisiae</i>
4:00	Megan Jordan Examining the Seed Banks of Invaded Coastal Wetlands	Manjot Hunjan Facilitating point of care diagnostics through rapid real-time pathogen and host biomarker detection
4:15	Evan Balzer Anthropogenic Roost Selection and Body Mass Phenology of Bats in Eastern Canada	Isaac Ellmen Automated analysis of SARS-CoV-2 wastewater sequencing data
4:30		Brittney Lato Investigating multiplexed mutations in <i>Drosophila</i>
4:45	Closing Remarks – Dr. Moira Glerum & Isabel Hilgendag	
5:00	End of Symposium	