

52ND ONTARIO ECOLOGY, ETHOLOGY, & EVOLUTION COLLOQUIUM

Schedule

Biosciences Complex Queen's University

May 25th to May 27th, 2022

Wednesday, May 25th, 2022

Link: https://queensu.zoom.us/j/98230012972?pwd=bVNwYzZYa29EeStTdWZPNWtxQUhtdz09

Meeting ID: 982 3001 2972

Passcode: 112929

13:00 to 14:00	Registration and Setup in the Biosciences Atrium				
14:00 to 14:30	Opening Remarks from Dr. Stephen Lougheed and Allen Tian				
14:30 to 15:30	Plenary Presentation by Dr. Jillian Harvey				
RM. 1101					
15:30 to 16:00	Coffee Break in the Biosciences Atrium				
	Student Presentation Session 1: Ecology				
16:00 to 16:15					
RM. 1101	Effect of mismatch on bighorn ewe energy allocation by Victoria Crozier				
16:00 to 16:15	Species differences in response to light and their implications for selective passage of				
RM. 1102	desirable fishes at in-stream barriers by Emily Fields*				
16:15 to 16:30	Cover crops improve the soil health characteristics and impact soil cytokinin profiles by				
RM. 1101	Imesha Perara				
16:15 to 16:30	An assessment of factors leading to increased coyote reports during the COVID-19				
RM. 1102	pandemic in Vaughan, Ontario by Juhaku Okugawa *				
16:30 to 16:45	The role of chance in mating and reproductive success in natural plant populations of the				
RM. 1101	clonal aquatic plant Sagittaria latifolia (Alismataceae) by Allison Kwok				
16:30 to 16:45	Can you teach a captive fish new tricks? Aversive learning in wild and captive fathead				
RM. 1102	minnow (Pimephales promelas) by Megan Cyr*				
16:45 to 17:00	Effects of nutrient deposition and drought on floral traits in <i>Mimulus guttatus</i> by Hannah				
RM. 1101	Brazeau*				
16:45 to 17:00	Phenotypic plasticity and microevolution drive the metabolic phenotype of Daphnia				
RM. 1102	under hypoxia by Marco Lee				
17:00 to 17:15	Transplant populations of a coastal dune endemic plant can self-replace outside the				
RM. 1101	natural range at multiple sites and in multiple years by Regan Cross				
17:00 to 17:15	Spatial-rotational abilities of wild rufous hummingbirds (Selasphorous rufus) in a				
RM. 1102	foraging task by Christine Mishra				
17:15 to 17:30	Discovering endophytes from big bluestem (Andropogon gerardii) for economic and				
RM. 1101	agronomic applications by Fani Goltsios*				
17:15 to 17:30	The influence of shelter on the establishment of the invasive dandelion, <i>Taraxacum</i>				
RM. 1102	officinale, at its northern range limit by Francine Da Silva				
17:30 to 17:45	Promoting climate resilient cities and fostering social engagement through				
RM 1101 interdisciplinary work by Melissa McLeod, Regan Cross, Ryan Zhou, Jill					
	Julianah Adediji				
18:00 to 20:00	Dinner Social at the Queen's University Grad Club				

* Indicates a virtual event

Thursday, May 26th, 2022

Morning (09:30 to 12:00)

Link: https://queensu.zoom.us/j/98433778060?pwd=UldLN0hLaTczTStraDA0MlgzdS85Zz09

Meeting ID: 984 3377 8060

Passcode: 144876

Afternoon (13:00 to 18:00)

Link: https://queensu.zoom.us/j/91587668325?pwd=a3Zxc0ZyNlBSSGsyeUpkcUlHa3czQT09

Meeting ID: 915 8766 8325

Passcode: 645039

09:00 to 09:30	09:00 to 09:30 Breakfast in the Biosciences Atrium				
	Student Presentation Session 2: Evolution				
09:30 to 09:45	Estimating the stability and heritability of resistance fueling copy number variation in				
RM. 1101	glyphosate-resistant Amaranthus palmeri by Lisa Han				
09:30 to 09:45	Probing intralocus sexual conflict through sex limited selection by Harshavardhan				
RM. 1102	Thyagarajan				
09:45 to 10:00	The effect of mate-limitation on evolutionary rescue by Puneeth Deraje				
RM. 1101	The effect of mate-initiation on evolutionary rescue by I uneeth Deraje				
10:00 to 10:15	Genomic tools to inform restoration strategies of three species of Calamagrostis in				
RM. 1101	Canada's Northwest Territories by Maria Jose Gomez Quijano				
10:00 to 10:15	Using evolutionary biology and mathematical modelling to explore how cancer shapes				
RM. 1102	the life cycle by Sydney Ackermann*				
10:15 to 10:30	Investigating the effects of varying recombination rates on the DNA sequence				
RM. 1101	polymorphism due to non-random selection processes using an individual based model by				
KWI. 1101	Imran Sayyed				
10:15 to 10:30	Conservation genetics of an imperilled freshwater fish (Erimyzon succetta) across its				
RM. 1102	entire geographic range by Sumeet Sekhon*				
10:30 to 10:45	No altitudinal clines for cyanogenesis in populations of White Clover (<i>Trifolium Repens</i>)				
RM. 1101	in Alberta, Canada by Chloe Dean-Moore				
10:30 to 10:45	Artificial selection on clonal growth in <i>Mimulus guttatus</i> by Christina Steinecke				
RM. 1102	Artificial selection on cional growth in Miniaus guitaus by Christina Steinecke				
10:45 to 11:00	Two of a kind, or do opposites attract? Quantifying patterns of assortative mating by size				
RM. 1101	in fruit flies, Drosophila melanogaster by Sanduni Talagala*				
11:00 to 12:00	Plenary Presentation by Dr. Rowan Barrett				
RM. 1101	Tichary Tresentation by Dr. Rowan Darrett				
12:00 to 13:00	Lunch Break in the Biosciences Atrium				
Student Presentation Session 3: Ethology and Ecology					

* Indicates a virtual event OE3C 2022 Schedule

13:00 to 13:15 RM. 1101 RM. 1102 RM. 1102 RM. 1102 RM. 1103:30 RM. 1101 RM. 1104 RM. 1105 RM. 1105 RM. 1106 RM. 1106 RM. 1107 RM. 1107 RM. 1107 RM. 1108 RM. 1108 RM. 1109 RM. 1101 RM. 1109 RM. 1101 RM.						
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RM. 1102 tshawytscha) fry by Chris Tracey The effects of socioeconomic variation on the natural selection of Eurosta solidaginis by RM. 1101 Estimates of migratory flight speed in black-throated blue warblers (Setophaga caerulescens): an automated radio telemetry study using Motus by Patricia Rokitnicki 13:30 to 13:45 Caffeine's effects on the complex behaviour and physiology of fathead minnow (Pimphales promelas) by Jacqueline Bikker* 13:30 to 13:45 Post-breeding survival of adult and first-year Bank Swallows in the Great Lakes ecoregion: a radio telemetry study by Christian Buchanan-Fraser 13:45 to 14:00 Gulping air: The influence of temperature and feeding on Betta breath rate by Gracie Li-Ting-Wai 13:45 to 14:00 Ting-Wai 14:00 to 14:15 RM. 1101 Western Hognose Snakes prefer environmental enrichment by Gokulan Nagabaskaran 14:15 to 16:00 Poster Session and Coffee in the Atrium 16:00 to 17:00 RM. 1101 The vulnerability of urban green spaces to plant invasions by Garland Xie The vulnerability of urban green spaces to plant invasions by Garland Xie The impacts of environmental variability on parasite diversity within-hosts by Madeline Jarvis-Cross* Improving rehabilitated eastern cottontail (Sylvilagus floridanus) survivability and welfare by Pauline Kosmal* Translocation of microplastic particles observed in Lake Ontario sportfish by Madeleine Milne Translocation of microplastic particles observed in Lake Ontario sportfish by Madeleine Milne Translocation of microplastic particles observed in Lake Ontario sportfish by Madeleine Milne Translocation of microplastic particles observed in Lake Ontario sportfish by Madeleine Milne Translocation of microplastic particles observed in Communities of freshwater aquatic insects? by Ilia Maria Ferzoco*						
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18:00 to 20:00 Dinner Social at the Grizzly Grill	RM. 1101 17:00 to 17:15 RM. 1101 17:00 to 17:15 RM. 1102 17:15 to 17:30 RM. 1101 17:15 to 17:30 RM. 1102 17:30 to 17:45 RM. 1101 17:30 to 17:45 RM. 1101	Student Presentation Session 4: Ecology, Ethology, and Evolution The vulnerability of urban green spaces to plant invasions by Garland Xie The impacts of environmental variability on parasite diversity within-hosts by Madeline Jarvis-Cross* Improving rehabilitated eastern cottontail (Sylvilagus floridanus) survivability and welfare by Pauline Kosmal* The effect of urbanization and latitude on melanin display in monarch (Danaus Plexippus) caterpillars in Central Canada by Rohab Batool and Juriyah Jenan* Translocation of microplastic particles observed in Lake Ontario sportfish by Madeleine Milne Frogs, food, and feces: Analyzing Anuran diets across a habitat disturbance gradient in Southern Ontario by Natalie Houde*				
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Friday, May 27th, 2022

Link: https://queensu.zoom.us/j/92553087785?pwd=K1pqblI5YVVtOFUzZGZkeThiZVo1dz09

Meeting ID: 925 5308 7785

Passcode: 275421

09:00 to 09:30	Breakfast in the Biosciences Atrium			
09:30 to 10:30 RM. 1101	Plenary Presentation by Dr. Christopher Sturdy *			
	Student Presentation Session 5: Ecology, Ethology, and Evolution			
10:30 to 10:45	A shift from sexual to asexual reproduction in a wetland plant: implications for range			
RM. 1101	edge dynamics by Hana Thompson			
10:30 to 10:45	Bed bug mating networks: the effect of female reproductive status on male mate choice			
RM. 1102	and female avoidance behaviour by Janice Yan			
10:45 to 11:00	The relation between environmental salinity and salt tolerance of a glycophytic sunflower			
RM. 1101	(Helianthus annuus) by Aaron Dain			
10:45 to 11:00	The urban squirrel: Assessing the impact of urbanization on behaviour by Nathan			
RM. 1102	Lewis**			
11:00 to 11:15	Investigating differences in plant community composition and environmental			
RM. 1101	characteristics associated with the varying sexual systems of Sagittaria latifolia by Tamy			
	Puniani*			
11:00 to 11:15	The efficiency of wind pollination in angiosperms by Claire Smith			
RM. 1102	, , ,			
11:15 to 11:30	Personality assessments in two wild populations of vervet monkeys (Chlorocebus			
RM. 1101	pygerythrus) by Justine Vermey			
11:15 to 11:30	Development of diagnostic tools for agrochemical exposure in the western honey bee			
RM. 1102	(Apis mellifera) using transcriptomics by Aidan Jamieson			
11:30 to 11:45	Colonization reduces the diversity of an ecologically important trait in introduced			
RM. 1102	Hesperis matronalis by Katie Maunder			
11:45 to 12:30	Lunch Break in the Biosciences Atrium			
12:30 to 12:50	Closing Remarks and awards by Dr. Stephen Lougheed and Allen Tian			
12:45 to 17:00	QUBS/Elbow Lake Social			

* Indicates a virtual event OE3C 2022 Schedule

Posters

Atrium (2)	The exudation of secondary metabolite, (-)-antofine, in <i>Vincetoxicum rossicum</i> in different					
	ecological contexts by Andrew Le					
Atrium (3)	Developing methods for non-standard toxicity tests on juvenile freshwater mussels (Lampsilis					
Autum (3)	siliquoidea) by Elli Hung					
Atrium (4)	The influence of injury status on landing velocities in laying hens by Jacob Brost					
Atrium (5)	Assessing the potential of <i>Caenorhabditis elegans</i> in the bioremediation of					
	Microcystis aeruginosa by Jordan Balson					
Atrium (7)	Genomic detection of hybridization in <i>Typha latifolia</i> and <i>T. angustifolia</i> by Jose Alberto Aleman					
Atrium (8)	The genetic covariance between mating success and fitness by Hana Fahim					
Atrium (9)	An optimized whole-genome library preparation technique for genome-wide SNP sequencing by					
	Tulsi Patel					
Atrium (10)	Kin discrimination and plastic responses in growth and flowering in a plant by Isabeau Lewis					
Atrium (11)	STREAMlining community assessment: An evaluation of primers for eDNA metabarcoding of					
. ,	fishes in the Grand River watershed by Erika Myler					
Atrium (13)	Uncovering the genomic basis for parallel allochronic divergence in a seabird species complex					
. ,	(Hydrobates spp.) by Gihyun Yoo					
Atrium (14)	A multivariate analysis of whether phenotypic covariance matrices are a good substitute for					
. ,	genetic covariance matrices by Alexander MacKenzie					
Atrium (15)	No trade-off between protection from seed predation and plant size among flower colour morphs					
` '	of Hesperis matronalis by Laury Joslin					
Atrium (16)	Developing novel citizen science protocols for environmental DNA based biodiversity surveys by Allen Tian					
Atrium (17)	Exploring relationships between latitude and immunity gene diversity in the black-legged					
71010111 (17)	kittiwake by Kaitlyn Lew					
Atrium (21)	Assessing spatiotemporal variation and foraging patterns of polar bears across Canada via DNA					
7101011 (21)	metabarcoding by Emily Landon					
Atrium (23)	Climatic variation in flower colour in the mustard <i>Hesperis matronalis</i> across its native and					
7101011 (23)	introduced ranges by Caroline Tang					
Atrium (24)	Application of genomics to population assignment of threatened leach's storm-petrels in the					
71010111 (2.1)	Atlantic Ocean by Heather Lounder					
Atrium (25)	Fishing for genes: Comparing environmental DNA fish community sampling with conventional					
11010111 (20)	sampling methods in thermally stratified lakes by Adam Poulin					
Virtual (1101)	Canadian bee-cology: climate and the distribution of solitary bees using DNA metabarcoding by Lucie Vezina*					
Virtual (1101)	The dispersal and activity of juvenile round goby by Grace Burgess*					
Virtual (1101)	Intraspecific variation in mutualism effectiveness in plant-animal interactions by Sol Park*					
Virtual (1101)	Evolution of the long-wavelength sensitive opsin gene (LWS) in South American electric fishes					
Viituai (1101)	(Gymnotiformes) by Esme Macpherson*					
Virtual (1102)	An annotated draft genome of Lythrum salicaria (Purple loosestrife) to study rapid evolution and					
	invasion genetics by Mabel Fuentes Vergara*					
Virtual (1102)	Forage crop plant species are overused in competition experiments by Jahanara Jabbar*					
Virtual (1102)	Variation in foraging strategies of New Zealand albatross species within a dominance hierarchy by					
	Eryn Basham*					
Virtual (1102)	N. orbicollis vs. N. pustulatus: bigness in a fight for fitness by Yohanna Vangenne*					

Virtual Poster Rotation

RM. 1101 14:00 to 14:10	Lucie Vezina	RM. 1102 14:00 to 14:10	Mabel Fuentes Vergara
RM. 1101 14:10 to 14:20	Grace Burgess	RM. 1102 14:10 to 14:20	Jahanara Jabbar
RM. 1101 14:20 to 14:30	Sol Park	RM. 1102 14:20 to 14:30	Eryn Basham
RM. 1101 14:30 to 14:40	Esme Macpherson	RM. 1102 14:30 to 14:40	Yohanna Vangenne
RM. 1101 14:40 to 14:50	Lucie Vezina	RM. 1102 14:40 to 14:50	Mabel Fuentes Vergara
RM. 1101 14:50 to 15:00	Grace Burgess	RM. 1102 14:50 to 15:00	Jahanara Jabbar
RM. 1101 15:00 to 15:10	Sol Park	RM. 1102 15:00 to 15:10	Eryn Basham
RM. 1101 15:10 to 15:20	Esme Macpherson	RM. 1102 15:10 to 15:20	Yohanna Vangenne

All posters are available at

https://drive.google.com/drive/folders/1MCOm7wMFTfaag7gusiDaWjlQSDyROI2j?usp=sharing



Website

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* Indicates a virtual event OE3C 2022 Schedule

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