

Ontario Biology Day 2012 – Oral Presentations, Saturday 17<sup>th</sup> March

Room C204		Room C203		
Ecology & Evolution 1	13:00	<b>Michaela Haring</b> – The influence of mating systems on initial maternal investment. <i>Laurentian University</i>	13:00	<b>Melissa Menard</b> – Cell Cycle Regulation in Myoblasts by RNA Binding Proteins. <i>Laurentian University</i>
	13:15	<b>Alina Reid</b> – The Use of Fish Cell Lines for the Study of Bee Nosemosis. <i>Wilfrid Laurier University</i>	13:15	<b>Joel Hendry</b> – Cross Resistance of Carboplatin, Docetaxel and Dual Resistant Ovarian Cancer Cell lines to Doxorubicin. <i>Laurentian University</i>
	13:30	<b>Angélique Blais</b> – Le régime alimentaire du carcajou ( <i>Gulo gulo</i> ) pendant l'hiver des années 2010 et 2011 au Yukon. <i>Laurentian University</i>	13:30	<b>Pavel Koterniak</b> – Effects of cardiac development and hypertrophy on SNARE protein expression in neonatal rat ventricular cardiomyocytes. <i>York University</i>
	13:45	<b>Caroline Sadlier</b> – The relationship between lake and watershed characteristics and $\delta^{13}C$ and $\delta^{15}N$ values at the base of the food web in Boreal Shield Lakes. <i>Laurentian University</i>	13:45	<b>Cristina Beghian</b> – Analysis of cancer-associated mutations of Cockayne Syndrome group B. <i>McMaster University</i>
	14:00	<b>Emily Gloster &amp; Shannon Williams</b> – Gill Morphology of Yellow Perch ( <i>Perca flavescens</i> ) Across Divergent Environments. <i>Laurentian University</i>	14:00	<b>Kelly Graff</b> – Transgenerational Programming of Hypertension: Role of Phenylethanolamine N-methyltransferase. <i>Laurentian University</i>
	14:15	<b>Michelle Lawrence</b> – Sperm Morphometry of Purebred and Mixed Breed Domestic Dogs. <i>Laurentian University</i>	14:15	<b>Iris Kwok</b> – Effects of Mixtures of Bisphenol-A and Triclosan on Intrauterine Implantation in <i>Mus musculus</i> . <i>McMaster University</i>
	14:30	<b>Cristen Watt</b> – Does the Removal of Claw Function affect Fight Outcome between Crayfish, <i>Orconectes propinquus</i> ? <i>University of Western Ontario</i>	14:30	<b>Jessica Dare</b> – The role of tuberin as a mitotic, apoptotic, and autophagic regulator. <i>Department of Biology, University of Windsor</i>
	14:45	<b>Annie Ngo</b> – Serial reversal learning in bumblebees, <i>Bombus impatiens</i> : A comparison of experienced and inexperienced foragers. <i>University of Western Ontario</i>	14:45	<b>Lyubov Lytvyn</b> – The effects of maternal low protein diet on endochondral bone development in <i>Rattus norvegicus</i> . <i>University of Western Ontario</i>
	15:00	~ Coffee Break ~	15:00	~ Coffee Break ~
	15:15	<b>Chris Burke</b> – Migration of the Sexual Nuclei of <i>Metschnikowia hawaiiensis</i> . <i>University of Western Ontario</i>	15:15	<b>Maja Milojevic</b> – Detecting Genome-Wide Copy Number Variants in the harlequin Mouse Cerebellum using the Mouse Diversity Genotyping Array. <i>University of Western Ontario</i>
	15:30	<b>Graeme Hamilton &amp; Brett Nugent</b> – Food Web Positions and Trophic Niche Dimensions of Lake Whitefish and White Sucker in Boreal Lakes Inferred from Stable Isotope Analyses. <i>Laurentian University</i>	15:30	<b>Megan Cedrone</b> – Hypoxia Induced Alterations in Muscle Cell Differentiation and Mitochondrial Function. <i>University of Western Ontario</i>
	15:45	<b>Hannah Tennant</b> – The Effect of Social Experience on Female Mate Preference and Mating Dynamics. <i>Wilfrid Laurier University</i>	15:45	<b>Britney Hewitt</b> – Expression of Tuberin throughout Embryonic and Postnatal Development in the Mammalian Brain. <i>Department of Biology, University of Windsor</i>
	16:00	<b>Tosha Kelly</b> – Experimental manipulation of prenatal environment in Japanese Quail and effects on offspring phenotype. <i>Trent University</i>	16:00	<b>Melissa Snyder</b> – Identification of the Causal Variant Associated with a Suspected Autosomal Recessive Ataxia Displaying Dystonia and Mental Retardation. <i>University of Western Ontario</i>
	16:15	<b>J. Morgan Brown</b> – The effects of age, sex, and colour morph on migration timing and stopover refuelling in White-throated Sparrows ( <i>Zonotrichia albicollis</i> ). <i>University of Western Ontario</i>	16:15	<b>Omar Champsi</b> – The Effect of Hydrogen Sulphide (H <sub>2</sub> S) on the Erythropoietin Production of Hep3B Cells. <i>University of Western Ontario</i>
	16:30	<b>Kirsten E. Gallagher</b> – Mitochondrial Metabolism of the Brain Cortex and Cardiac Muscle in Hibernating Thirteen-lined Ground Squirrels ( <i>Ictidomys tridecemlineatus</i> ). <i>University of Western Ontario</i>	16:30	<b>Chantal Armali</b> – Onset and progression of Neurodegeneration in <i>Drosophila melanogaster</i> . <i>University of Western Ontario</i>
	16:45	<b>Kaitlin Watt</b> – The Effect of Non-lethal Tissue Sampling on Mating and Oviposition Success of the Cabbage White Butterfly ( <i>Pieris rapae</i> ). <i>University of Western Ontario</i>	16:45	<b>Sarah L. Lake</b> – A comparison of static and dynamic temperature respirometry for measuring thermal sensitivity of metabolism. <i>University of Western Ontario</i>
17:00	<b>Yvette Bechard</b> – The Relationship Between Otolith Growth and Somatic Growth in Adult Fishes. <i>Laurentian University</i>	17:00	<b>Sali Farhan</b> – Mapping the locus responsible for a rare novel autosomal recessive condition: Infantile Fatal Mitochondrial Disease. <i>University of Western Ontario</i>	
		17:15	<b>Sean Leith</b> – Aboriginal Populations Across North America and Greenland: Analysis with GWAS Identified Type 2 Diabetes Genetic Risk Factors and 'Private' Mutation Analysis. <i>University of Western Ontario</i>	
		17:30	<b>Aoife Cox</b> – Effects of Antioxidants on the Differentiation of Primitive Extraembryonic Endoderm. <i>University of Western Ontario</i>	
		17:45	<b>Hannah Goldberg</b> – Microglial activation as an indicator of age-related cerebellar degeneration in the harlequin mouse. <i>University of Western Ontario</i>	
		18:00	<b>Sharon Yong</b> – Localization of Protein Arginine Methyltransferase 5 at Different Cell Cycle Phases. <i>Department of Biology, University of Windsor</i>	

Health &amp; Physiology 1

Ontario Biology Day 2012 – Oral Presentations, Saturday 17<sup>th</sup> March

Room C205		Room C207		
Ecology & Evolution 2	13:00	<b>Kayla Galloway</b> – Experimental Effects of Stress Hormones on Endoparasite Loads in Eastern Chipmunks. <i>Laurentian University</i>	13:00	<b>Jasmine Farahbakhsh</b> – The Effects of Diet-Related Mechanisms on Lean Mass Gains with Resistance Training. <i>McMaster University</i>
	13:15	<b>Kelsey Gunn</b> – Validation of ELISA method for hair cortisol evaluation in Eastern Chipmunks and Laboratory Rats. <i>Laurentian University</i>	13:15	<b>Karen Lamb</b> – Influence of Scavenger Receptor BI Deficiency on Diet-Induced Atherosclerotic Regression, As Examined Through Apolipoprotein E Hypomorphic Mouse Models. <i>McMaster University</i>
	13:30	<b>Veronica A. Mullin</b> – Reproductive Capacity of the African Cyprinid <i>Barbus Neumayeri</i> Across Divergent Environments. <i>Laurentian University</i>	13:30	<b>Pamela Chenard</b> – Tissue Concentrations of Doxorubicin and Doxorubicinol 24 and 96 Hours Following Injection in the Rat. <i>Laurentian University</i>
	13:45	<b>Michael Peers</b> – The Influence of Competition on the Large-Scale Distribution of Species. <i>Trent University</i>	13:45	<b>Sahaana Rangarajan</b> – The Reproductive Impacts of Pharmaceutical Exposure on Zebrafish ( <i>Danio rerio</i> ) from a Multigenerational Perspective. <i>McMaster University</i>
	14:00	<b>Jessica Young</b> – Effects of developmental and rearing conditions on female mate choice in <i>Drosophila melanogaster</i> . <i>Wilfrid Laurier University</i>	14:00	<b>Ryan Parker</b> – Characterizing variation in the humoral immune system: the effect of age, diet and body condition on Immunoglobulin Y levels. <i>Department of Biology, University of Windsor</i>
Environment & Restoration	14:15	<b>Magda Konopka</b> – Seasonal differences in injury frequency between male and female <i>Orconectes propinquus</i> . <i>University of Western Ontario</i>	14:15	<b>Rachel Edgar</b> – Using the Mouse Diversity Genotyping Array to compare the burden and nature of somatic mutations in the cerebellum of older harlequin mice. <i>University of Western Ontario</i>
	14:30	<b>Sean Boyle</b> – Assessment of the Accuracy of Skeletochronology, and its Application to a Population of Spotted Salamanders ( <i>A. maculatum</i> ). <i>Brock University</i>	14:30	<b>Howard Teresinski</b> – Characterisation of the Preprotein Binding Partners of atToc132, an <i>Arabidopsis</i> Chloroplast Protein Import Receptor. <i>Wilfrid Laurier University</i>
	14:45	<b>Sarah Walton</b> – Diversity and Divergence of Lake Trout Lineages for Phylogeographic Resolution. <i>Trent University</i>	14:45	<b>Samantha Richardson</b> – Effects of Benzo[a]pyrene on the Development of the Mouse Mammary Gland. <i>Department of Biology, University of Windsor</i>
	15:00	~ Coffee Break ~	15:00	~ Coffee Break ~
	15:15	<b>Chantal Audet</b> – Colonization of Constructed Ponds by Crustacean Zooplankton. <i>Laurentian University</i>	15:15	<b>Ingrid Qemo</b> – Role of Spy1 in Induced Pluripotency; Potential in Overriding Senescent Barriers to Reprogramming. <i>Department of Biology, University of Windsor</i>
	15:30	<b>Amy Farahbakhsh</b> – Interactions Between Nitrogen Availability And Frost Damage In The Grass <i>Schizachyrium scoparium</i> . <i>University of Western Ontario</i>	15:30	<b>Stephen Chan</b> – Identifying Genes Involved in Interspecific Mate Preference of <i>Drosophila Simulans</i> . <i>University of Western Ontario</i>
	15:45	<b>Brittany Rantala-Sykes</b> – The Growth and Restoration Potential of Five Nitrogen Fixing Species on Soil Amendments from Waste Rock and Materials at Victor Mine. <i>Laurentian University</i>	15:45	<b>Sean Addison</b> – Long-term dysregulation of microRNA-679 potentially associated with aberrant DNA methylation at the IG-DMR imprinting locus in a mouse model of fetal alcohol exposure. <i>University of Western Ontario</i>
	16:00	<b>Catherine A. Duguay</b> – Effects of logging on the genetic structure of the wood frog ( <i>Rana sylvatica</i> ). <i>University of Western Ontario</i>	16:00	<b>Katrina Bruch</b> – The localization of female mate preference genes in <i>Drosophila simulans</i> . <i>University of Western Ontario</i>
	16:15	<b>Katie Baron</b> – Improved Assay to Monitor Toxicity of the Ichthyotoxic Phytoflagellate, <i>Heterosigma akashiwo</i> . <i>University of Western Ontario</i>	16:15	<b>Adam Guira</b> – Modulation of GADD 153 by Glutamine. <i>Laurentian University</i>
	16:30	<b>Kelly L. Summers</b> – Gold Complexation Within A Halophilic Cyanobacterium. <i>University of Western Ontario</i>	16:30	<b>Amelia Perri</b> – Population Structure and Genetic Diversity of the Yeast Species <i>Kurtzmaniella cleridarum</i> . <i>University of Western Ontario</i>
16:45	<b>Laura Borden</b> – Tallgrass Prairie Restoration in a Changing Environment: The Influence of Nitrogen Deposition. <i>University of Western Ontario</i>	16:45	<b>Ashley Renaud</b> – Locating Genes for Species-specific Female Mate Preference in <i>Drosophila simulans</i> . <i>University of Western Ontario</i>	
17:00	<b>Lila Karolak</b> – Aggression syndromes: A comparison between established and recently recolonizing populations of the southern red-backed vole ( <i>Myodes gapperi</i> ). <i>University of Western Ontario</i>	17:00	<b>Christopher Lavalle</b> – Characterization of novel roles of MTRPOL, the mitochondrial RNA polymerase, in DNA replication. <i>Laurentian University</i>	
17:15	<b>Sommer Foster</b> – The Effects of Long- and Short-Term Exposure to Warm Water Conditions on Female Guppy ( <i>Poecilia reticulata</i> ) Mate Choice. <i>University of Western Ontario</i>	17:15	<b>Florence Wilson</b> – Analysis of the Role of TRF1 Phosphorylation in Telomere Regulation. <i>McMaster University</i>	
Health & Physiology 2			17:30	<b>Jack Hickmott</b> – Recombinase-Mediated Exchange and Expression of Cytokinesis Regulators in <i>Schizosacchomyces pombe</i> . <i>University of Western Ontario</i>
			17:45	<b>Levent B. Karademir</b> – Altering Substrate Specificity of <i>Arabidopsis</i> Arogenate Dehydratases (ADTs). <i>University of Western Ontario</i>
			18:00	<b>Rene G. Boudreau</b> – Determining Protein-Protein Interaction Profiles for Select AROGENATE DEHYDATASES from <i>Arabidopsis thaliana</i> . <i>University of Western Ontario</i>
Molecular Biology & Genetics 1				

## Ontario Biology Day 2012 – Poster Presentations – Library Rotunda

<i>Research Area</i>	<i>Description</i>	<i>Poster No.</i>
Health & Physiology	<b>Amanda M. Hollingsworth</b> – Protective Effects of Polyphenolic Compounds on Oxidative Stress-Induced Cytotoxicity in Rat Cardiac Myocytes. <i>Laurentian University</i>	1
Molecular Biology & Genetics	<b>Brittany Staboon</b> – Chromosome Concepts: The effectiveness of kinesthetic versus visual approaches in teaching chromosome dynamics in undergraduate genetics education. <i>McMaster University</i>	2
Ecology & Evolution	<b>Christine Palermo &amp; Harris Gureshi</b> – Is the World a Lot More Unpredictable Than we Think? <i>University of Toronto</i>	3
Ecology & Evolution	<b>Cory Schiiling</b> – Using approach-grafting and the mutant R50 (sym16) to study autoregulation of nodulation in pea ( <i>Pisum sativum L.</i> ). <i>Wilfrid Laurier University</i>	4
Ecology & Evolution	<b>Courtney Clayson</b> – Floral Development, Anatomy and Morphology in <i>Cuscuta gronovii</i> (Convolvulaceae). <i>Wilfrid Laurier University</i>	5
Ecology & Evolution	<b>David Lisser</b> – The Biomolecular Basis of Ammonia and Anoxia Tolerance in the Goldfish ( <i>Carrasius auratus</i> ): Managing Oxidative Stress. <i>Wilfrid Laurier University</i>	6
Health & Physiology	<b>Erin Kehoe</b> – Influence of Dietary Lipids on Longevity of the Cricket. <i>McMaster University</i>	7
Ecology & Evolution	<b>Kathryn L. Deeming</b> – Role of Chemosensory and Auditory Communication on the Outcome of Female Mating Decisions in <i>Drosophila Melanogaster</i> . <i>Wilfrid Laurier University</i>	8
Environment & Restoration	<b>Kurtis Baute</b> – Species delimitation within <i>Cuscuta</i> subsection <i>Arvensae</i> (dodders, Convolvulaceae): recognition of <i>C. pentagona</i> and <i>C. campestris</i> as distinct species. <i>Wilfrid Laurier University</i>	9
Ecology & Evolution	<b>Lucy Ambroszkiewicz</b> – Mathematical Concept Inventory for Life Science Students. <i>McMaster University</i>	10
Environment	<b>Sanjna Kapoor</b> – Effect of elevated water temperature on the survival and development of Lake Whitefish populations in Lake Huron, surrounding Port Elgin. <i>McMaster University</i>	11
Ecology & Evolution	<b>Sarah J. Gignac</b> – Development Of An Embryonic Cell Line Killifish, <i>Fundulus heteroclitus</i> . <i>Wilfrid Laurier University</i>	12
Ecology & Evolution	<b>Shawn Parascandalo</b> – Characterization of CYP1A and CYP1C1 in <i>Fundulus Heteroclitus</i> . <i>McMaster University</i>	13
Ecology & Evolution	<b>Sohaib Amjad</b> – Assessing the Effects of High Carbohydrate Sugar and High Protein Diets on the Reproduction-Longevity Tradeoff in Crickets. <i>McMaster University</i>	14
Health & Physiology	<b>Thomas Hill</b> – The involvement of interleukin-22 and platelet-derived growth factor in the control of b cell regenerative factor, Reg2, in the pancreas of non-obese diabetic mice following adjuvant immunotherapy. <i>University of Western Ontario</i>	15
Health & Physiology	<b>Kyle Schaltz</b> – The Expression and Energy Cost of Pacific Oyster Alternative Oxidase in <i>Saccharomyces cerevisiae</i> . <i>Department of Biology, Wilfrid Laurier University</i>	16
Environment & Restoration	<b>Vanessa Hoytfox</b> – The Effects of Body Size on 3-Trifluoromethyl-4-Nitrophenol (TFM) Toxicity in Larval Sea Lamprey ( <i>Petromyzon marinus</i> ). <i>Department of Biology, Wilfrid Laurier University</i>	17
Health & Physiology	<b>Andrea Somers</b> – Extracellular Matrix Proteins and their putative role in Cardioblast migration and subsequent Lumen formation in <i>Drosophila melanogaster</i> . <i>Department of Biology, McMaster University</i>	18
Environment & Restoration	<b>Eugene Choi</b> – A Study of the Effects of Chronic Acetaminophen Exposure on Renal Function and Histology in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ). <i>Department of Biology, McMaster University</i>	19
Health & Physiology	<b>James Wilson</b> – The Effect of Absolute Humidity on the Quality of Vocal Production. <i>Departments of Forensics and Psychology, Laurentian University</i>	20