



# Ontario Biology Day

March 12-13, 2011 @ Wilfrid Laurier University

## Programme

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# LAURIER BIOLOGY

Laurier Biology is an exceptional centre of learning and research, strongly committed to meeting the challenges of contemporary biology by fostering the integration of all levels of biological organization from molecules, organelles, cells, tissues and organs to organisms, populations, species, and ecosystems. Rather than “taking apart” the complex interactions that occur in and among biological systems and studying them separately, we aim towards a “putting together” approach meant to reflect better the intricate biological reality of life on earth. Teaching and research in biological systems and their interactions are conducted under three major interlocking interdisciplinary themes: 1) biodiversity, evolution and ecology; 2) cell, molecular and microbial biology and genetics; 3) physiology and toxicology. Our graduates are noted for their ability to identify and articulate the most pressing biological issues facing society, to pinpoint the key elements of those issues, and to devise appropriate and effective strategies to tackle the necessary research as well as to implement the resulting solutions. Our graduates are full, active, and eager participants in their society.

## Graduate Program

### *MSc in Integrative Biology*

*Biological Research for the 21st Century Integrative Biology at Laurier is a two-year thesis-based research program leading to the MSc degree. In their research students are expected to approach a problem from two or more levels of explanation (i.e. genetic/development, anatomy/physiology, ecology/environment, evolution). As opposed to the usual reductive approach where research is contained within a single sub-discipline of biology, the program in Integrative Biology requires students to assemble the details of their research into a comprehensive explanation of biological phenomena. At the end of the program, students will be well prepared for a variety of career paths including further research (a PhD program), medicine, industry, government, law, or consulting. Inaugurated in Fall 2007, the MSc in Integrative Biology builds on the pedagogic philosophy that informs our undergraduate programs; our goal is to produce graduates who have the following attributes:*

- *a nimble attitude to thinking about biological problems and processes.*
- *a justified confidence in their ability to learn, think, and act - that is, they will have a "can-do" state of mind that is backed up by concrete and well-demonstrated skills in critical thinking and problem solving.*
- *an ability to design and implement a substantial original research project, and to effectively communicate the results of that research in a variety of forums, including refereed professional journals, scientific conferences, and the popular press.*
- *an ability to succeed in a PhD program anywhere in the world.*
- *an ability to succeed in a professional career in any of the biological sciences.*



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 SEMINAR AND POSTER PRESENTATIONS  
 FACULTY OF SCIENCE



**SATURDAY MARCH 12**

<b>Time</b>	<b>Event</b>	<b>Location</b>
11:00-1:00	Registration	Science Building (back entrance foyer)
12:00-12:30	Refreshments	Science Courtyard
12:30-1:00	Welcome: Dr. Max Blouw, President of WLU Dr. Deborah MacLatchy, V-P Academic	N1001 – Science Building
1:00-3:15	Seminar Session 1	Various rooms in Science Building
3:15-3:45	Refreshment Break	Science Courtyard
3:45-5:15	Seminar Session 2	Various rooms in Science Building
5:30-7:00	Poster Session	Science Courtyard
7:15 pm	Dinner and Evening Social Keynote Speaker: Dr. Michael Runtz Carleton University, Dept. of Biology	Buffet-style dinner in the Science Courtyard – cash bar will be available

**SUNDAY MARCH 13**

<b>Time</b>	<b>Event</b>	<b>Location</b>
8:30-10:00	Seminar Session 3	Various rooms in Science Building
10:00-10:15	Refreshment Break	Science Courtyard
10:15-11:30	Seminar Session 4	Various rooms in Science Building
11:30-12:00	Judges' Deliberations	Science Building (Dean's Boardroom)
12:00 pm	Closing remarks and award presentations Dr. Joan Norris, Dean of Faculty of Graduate and Post-doctoral Studies Dr. Frédérique Guinel, Professor Department of Biology	N1001 – Science Building

**Lunch boxes will be available for all guests to take along on their way home**



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**SATURDAY MARCH 12**

11:00 AM-1:00 PM REGISTRATION SCIENCE BUILDING FOYER AREA (AT ENTRANCE)

12:00-12:30 REFRESHMENTS (SPONSORED BY: MANDEL SCIENTIFIC)

12:30-1:00 PM WELCOME & OPENING REMARKS – N1001 (SCIENCE BLDG.)

**SESSION #1**

**Room N1001**

TIME	SPEAKER	TITLE
1:00 pm	C. M. Yeung* and B. A. Moffatt	<b>S-adenosylhomocysteine hydrolase: a cytokinin binding protein in developing <i>Arabidopsis thaliana</i> seeds?</b>
1:15 pm	Jennifer Knapp*, Matthew Smith	<b>Mutagenesis, expression and purification of <i>atToc33G</i> mutants for biophysical analyses.</b>
1:30 pm	Knowles, S., Saville, B, Morrison, E., and Emery, R.J.N.	<b>Taking the "phyto" out of phytohormones: fungal production of plant hormones is widespread.</b>
1:45 pm	S. Russell and M. Smith	<b>Insights into the function of Toc159 as the chloroplast preprotein import receptor</b>
2:00 pm	Karina Neimanis* and Allison E. McDonald	<b>The Identification of Non-Angiosperm Alternative Oxidases.</b>
2:15 pm	*Dasom Kim, Xuyan Li, Sangeeta Dhaubhadel	<b>Characterization of the soybean transcription factor, GmMYB176, in <i>Arabidopsis thaliana</i></b>
2:30 pm	Avi Biswas and Mark A. Bernards	<b>Expression of Fatty Acid <math>\omega</math>-Hydroxylase Genes in Soybean Hairy Roots</b>
2:45 pm	White, C.R.*, Kohalmi, S.E	<b>Changing substrate specificity of <i>Arabidopsis thaliana</i> AROGENATE DEHYDRATASES (ADTs)</b>
3:00 pm	M. J. Leung* and B. A. Moffatt	<b>5'-methylthioadenosine nucleosidase (MTN)-deficient <i>Arabidopsis thaliana</i> roots do the 'twist'</b>

**Room N1002**

TIME	SPEAKER	TITLE
1:00 pm	Syed Shah*, and Jeffrey S. Fillingham	<b>Identification of Interactomes for chromatin related proteins in <i>Tetrahymena Thermophila</i></b>
1:15 pm	Calinescu, Andrei I.*, Kelly Gregory M.	<b>The Effect of Nucleoredoxin Overexpression on the Wnt-<math>\beta</math>-Catenin Pathway and Epithelial-Mesenchymal Transitions.</b>
1:30 pm	Fatima Panju* and Ronald E. Pearlman	<b>Functional and Expression Analysis of a Chromatin Remodeling Protein in <i>Tetrahymena thermophila</i></b>
1:45 pm	Christine Kerr, Mizna Zaveri*, Mike L. Robinson, Judith A. West-Mays	<b>AP-2<math>\alpha</math> plays role in lens epithelial cell maintenance subsequent to lens vesicle separation</b>
2:00 pm	Nayasta Ademmana Kusdaya	<b>Analysis of Hox gene lin-39 expression and function in nematode vulval development</b>
2:15 pm	Marta Salek, Adam Stankiewicz, Dean H. Betts	<b>The effect of doxorubicin on cellular senescence and p66<sup>Shc</sup> expression in human dermal fibroblasts</b>
2:30 pm	Megan Byrne*, Dorota Lubanska, and Lisa A. Porter	<b>Hematopoietic Stem Cell Expansion and Transplantation &amp; Spy1 Expression in Induced Pluripotency</b>
2:45 pm	Don Karl Roberto*, Mohammad Haj Dezfulian, Espanta Jalili, William L. Crosby, and Lisa A. Porter	<b>Defining Interaction Networks Involving SKP2 and SPY1 Proteins Involved in Human Cell Cycle Regulation and Oncogenesis</b>
3:00 pm	Lowell De Villena	<b>The Role of the Transcription Factor Kaiso in the Development of Ovarian Cancer</b>

**PLEASE NOTE THAT ROOM N1056 WILL BE AVAILABLE THROUGHOUT THE CONFERENCE FOR PRACTICING TALKS**



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<b>Room N1042</b>		
<b>TIME</b>	<b>SPEAKER</b>	<b>TITLE</b>
1:00 pm	Alexandra Cleminson*, Dr. Bryan Neff, Ross Breckels	<b>The effects of heat stress on Trinidadian guppy's (<i>Poecilia reticulata</i>) sperm quality and reproductive success</b>
1:15 pm	Jennifer Smith	<b>Effects of Inbreeding Depression on Sperm Morphology in Lake Trout <i>Salvelinus namaycush</i></b>
1:30 pm	Samantha S. Baker*	<b>The evolution of sexual dichromatism in <i>Trogonidae</i></b>
1:45 pm	Jordan P. Detmers and Dr. Jeremy N. McNeil	<b>Reproductive Ecology of the Pacific beetle cockroach, <i>Diploptera punctata</i>.</b>
2:00 pm	Craig MacNair*, Amanda Moehring	<b>Identifying the genetic basis of interspecific female mate preference in <i>Drosophila simulans</i></b>
2:15 pm	Jasmine Farhan* and Jeremy McNeil	<b>Pheromone recognition and mating success in Hawaiian and Thai populations of <i>Diploptera punctata</i>.</b>
2:30 pm	Adrianna D. M. Clapp*, Scott F. Colborne and Bryan D. Neff	<b>Adaptations of the native pumpkinseed sunfish (<i>Lepomis gibbosus</i>) to the invasive zebra mussel (<i>Dreossema polymorpha</i>)</b>
2:45 pm	Nancy Raginski*, Yolanda Morbey	<b>Emergence timing in Chinook salmon (<i>Oncorhynchus tshawytscha</i>): effects of nest density</b>
3:00 pm	Derek Chung	<b>Rearing effects of hypoxia on the male reproductive capacity of <i>Pseudocrenilabrus multicolor victoriae</i>.</b>
<b>Room N1044</b>		
<b>TIME</b>	<b>SPEAKER</b>	<b>TITLE</b>
1:00 pm	X. L. Du & I. F. Creed	<b>The Importance of Soil CO<sub>2</sub> Efflux during Storm Events in Estimating Forest Carbon Accounts</b>
1:15 pm	Illina Frankiv*	<b>Investigation of Germicidal UV Impacts on Viable, but Non-Culturable Marine Bacteria (VBNC).</b>
1:30 pm	Lucija Prelovec and Karl Cottenie	<b>A test for trade offs and dispersal limitation in a zooplankton metacommunity</b>
1:45 pm	Jacey – Anne Jackson*, Jennifer Fenske, Joe Shorthouse	<b>Assessment of the Biodiversity of Ground and Rove Beetles in Sudbury's Industrially-Damaged Ecosystem</b>
2:00 pm	Pankhuri Malik	<b>Comparison of biodiversity and economics of various pan traps for collecting insects with emphasis on bees</b>
2:15 pm	Carly Ziter	<b>Consumer and resource driven impacts on root dynamics and carbon sequestration in a degraded grassland ecosystem</b>
2:30 pm	Shawn Hudes & Joffre Mercier	<b>Crouching as a Sleep-Like State in Crayfish</b>
2:45 pm	Kyle Gillespie* <sup>1</sup> , Cliff Robinson <sup>2</sup> , Karl Cottenie <sup>1</sup>	<b>Top down control and local and regional scale environmental effects on fish and invertebrate community structure in a temperate eelgrass ecosystem</b>
3:00 pm	Jason Brennan	<b>An investigation of herbivory effects in Ontario Festuca grasses infected with fungal endophytes.</b>
<b>Room N1057</b>		
<b>TIME</b>	<b>SPEAKER</b>	<b>TITLE</b>
1:00 pm	Melissa Giamou	<b>Compost quality can affect cadmium and lead uptake in lettuce (<i>Lactuca sativa</i>)</b>
1:15 pm	Kahlan Coates	<b>Plant hormonal response to nickel and cadmium heavy metal stress</b>
1:30 pm	Cassandra Shaw	<b>Hormonal cues in seeds of <i>Lupinus perennis</i> populations with contrasting germination rates</b>
1:45 pm	H. McManus	<b>Interactions of two growth promoting plant hormone groups: brassinosteroids and cytokinins</b>



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2:00 pm	Lindsey Clairmont	The effects of two nodulation inhibitors on nodule number in the <i>Pisum sativum</i> (L.) mutant E151
2:15 pm	Roba Bdeir	Effects of amiRNA silencing of methylthioadenosine nucleosidase expression in <i>Arabidopsis thaliana</i>
2:30 pm	Peter de Carvalho	Testing AON characteristics of E151, a low-nodulating mutant of <i>Pisum sativum</i> , with a series of approach-graft experiments
2:45 pm	Brian Sutton-Quaid	The effect of salinity on the toxicity of <i>Heterosigma akashiwo</i>
3:00 pm	Cayla Bronicheski	Investigation of germicidal UV impacts on the marine flagellates, <i>Tetraselmis apiculata</i> and <i>Heterosigma akashiwo</i>

**Room N1059**

THERE ARE NO SEMINARS SCHEDULED IN THIS ROOM DURING THIS SESSION.

**3:15-3:45 REFRESHMENT BREAK**  
*Sponsored by Fisher Scientific*

**SESSION #2**

**Room N1001**

TIME	SPEAKER	TITLE
3:45 pm	Ruchi Liyanage* and Dr. Patricia Lakin-Thomas	The <i>Neurospora crassa</i> circadian clock: <i>clock-control gene 16</i> expression in strains with different combinations of <i>frq-white collar</i> and <i>frq-less oscillators</i>
4:00 pm	Sarah Tancredi*, Graham Thompson	Immune gene expression in the Eastern subterranean termite, <i>Reticulitermes flavipes</i>
4:15 pm	Iliia Kisilevsky*, AM Laliberté, CML Hutnik, KA Hill	Upregulation of <i>Aldh2</i> , <i>Gpd2</i> and <i>Trpm6</i> can act as a marker of mitochondrial dysfunction in the degenerating retina of a premature ageing mouse model.
4:30 pm	Matthew W. Edwards*, AM Laliberté, CML Hutnik, KA Hill	Retinal degeneration in the <i>harlequin</i> ( <i>hq</i> ) mouse is characterized by early gene expression changes with associated nuclear displacement
4:45 pm	Candace Rapchak*, Saqib Sachani, Michael Crawford	Congenital cataracts: getting a clearer picture of the role of Pitx3 and the filamins.
5:00 pm	Eric J. Diehl*, Elise Wright & Shiva M. Singh	Epigenetic changes and depression phenotypes in a mouse model of Fetal Alcohol Spectrum Disorder.

**Room N1002**

TIME	SPEAKER	TITLE
3:45 pm	Suzan El-Rass*, and Jeffrey S. Fillingham	Linker Histone Acetylation in <i>Saccharomyces cerevisiae</i>
4:00 pm	Leila Ashurov*, Sara Chavoshi and Vivian	Cloning, Expression, Purification and Crystallization of the Catalytic Domains of Yeast De-ubiquitinating Enzymes
4:15 pm	Ernest Radovani*, and Jeffrey S. Fillingham	Insights on Histone H3 Lysine 9 Acetylation by Rtt109 in yeast.
4:30 pm	Kristine Stolarski*, co-author Dr. Jim Karagiannis.	Live-cell Imaging of the Pumilio Proteins in the Fission Yeast <i>Schizosaccharomyces pombe</i> .
4:45 pm	Kristen Ethier*, Kristine Bernard, Thomas Merritt	Characterization of a Matched Set of SOD1 P-element Excision Lines in <i>Drosophila melanogaster</i> : SOD1 Activity, Longevity, and Paraquat Sensitivity
5:00 pm		



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Room N1042		
TIME	SPEAKER	TITLE
3:45 pm	Stephanie Britton*, Dennis Higgs	<b>Genetic influences on brain size in the Chinook salmon (<i>Oncorhynchus tshawytscha</i>)</b>
4:00 pm	Jiwon Shin	<b>New droplet assay for analyzing thermal preferences in the nematodes <i>Caenorhabditis elegans</i> and <i>C. briggsae</i></b>
4:15 pm	Karl Heilbron* and Marc-André Lachance	<b>Evolution of temperature adaptation in <i>Saccharomyces cerevisiae</i> and <i>Saccharomyces paradoxus</i></b>
4:30 pm	Austin, C.J.*, and Moehring, A.J.	<b>Optimum developmental temperature as an indicator of adaptation of ten populations of <i>Drosophila simulans</i> (Diptera: Drosophilidae)</b>
4:45 pm	Elan Panov* and Marc-André Lachance	<b>Population Structure of Sexual Isolates of <i>Candida ipomoeae</i></b>
5:00 pm	Josh Alpern* & Amanda Moehring	<b>The sudden emergence of fertility in aged sterile hybrids of two recently diverged species of <i>Drosophila</i>.</b>
Room N1044		
TIME	SPEAKER	TITLE
3:45 pm	Mehwish Riaz*	<b>Endophytes in Mongolian Grasses</b>
4:00 pm	Nicole Bakker*, Dr. Irena Creed	<b>The Influence of Settlement Expansion on Dissolved Oxygen in Lake Naivasha, Kenya.</b>
4:15 pm	Hillen, Lisa* and Chow-Fraser, P.	<b>Association between nest site distribution of the green sea turtle and vegetation on Playa Norte beach, Costa Rica.</b>
4:30 pm	Majchrzak, Y.*, Wagner, N. and Paul Frost.	<b>The Effects of a Parasitic Infection on the Biochemical Composition and Physiological Processes of <i>Daphnia magna</i></b>
4:45 pm	Daniel Anstett <sup>1</sup> and Marie-Josée Fortin <sup>1</sup>	<b>Factors affecting lion (<i>Panthera leo</i>) distributions within the Welgevonden Reserve, South Africa</b>
5:00 pm	Melanie Chown*	<b>Effects of gall density on the mortality rate of inhabitants associated with the gall of <i>Diplolepis rosaefolii</i> (Hymenoptera: Cynipidae) on two host roses.</b>
Room N1057		
TIME	SPEAKER	TITLE
3:45 pm	Lisa Robertson	<b>Effect of metabolic rate on EE2 uptake in <i>Fundulus heretoclitus</i></b>
4:00 pm	Kelly Livingstone	<b>Examining the effect of source of natural organic matter on the acute toxicity of copper to <i>Hyalella azteca</i></b>
4:15 pm	Upasana Banerjee	<b>Chronic waterborne and dietary Ni exposure to round gobies: sub-cellular analysis</b>
4:30 pm	Emily Fernandes	<b>Physiological effects of chronic sub-lethal waterborne Ni exposure in rainbow trout (<i>Oncorhynchus mykiss</i>)</b>
4:45 pm	Justin Chow	<b>A multigenerational study of reproductive impacts of pharmaceutical drug exposure in zebrafish (<i>Danio rerio</i>)</b>
Room N1059		
TIME	SPEAKER	TITLE
3:45 pm	Deepa Rana* and Andre Bedard	<b>Role of ROS in the activation of the p20k lipocalin gene by contact-inhibition and hypoxia</b>
4:00 pm	Sean Gallagher	<b>Hypoxia tolerance in sea lamprey ammocoetes: clues suggesting alcoholic fermentation in response to hypoxic exposure</b>
4:15 pm	Michael Wells	<b>The impact of extreme environmental conditions on embryonic development and hatching of the mangrove rivulus (<i>Kryptolebias marmoratus</i>)</b>
4:30 pm	Olimpia Del Duca	<b>Carbonic anhydrase in the anal papillae of the larval mosquito, <i>Aedes aegypti</i></b>
4:45 pm	Asma Ali	<b>Alterations in the composition of fluid secreted by the Malpighian tubules of the mosquito, <i>Aedes aegypti</i> in response to rearing salinity</b>



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5:00 pm	Lisa Sorensen	The relationship between body size and sensitivity to the lampricide 3-TRIFLUOROMETHYL-4-NITROPHENOL (TFM) in larval sea lampreys
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**5:30 – 7:00 POSTER SESSION IN SCIENCE COURTYARD**

**7:15 DINNER AND EVENING SOCIAL**  
 Buffet-style dinner in the Science Courtyard – cash bar will be available

*Sponsored by Cedarlane Canada*

**Keynote Speaker: Dr. Michael Runtz, Carleton University, Dept. of Biology**

**SUNDAY, MARCH 13**  
**SEMINAR SESSIONS CONTINUE...**

**SESSION #3**

**Room N1001**

TIME	SPEAKER	TITLE
8:30 am	Philip Nguyen*, Rajka Borojevic, Wolfgang Kunze, Yu-Kang Mao, John Bienenstock, Elyanne Ratcliffe	<b>Does <i>Lactobacillus reuteri</i> induce neurochemical changes in enteric sensory neurons?</b>
8:45 am	Heather Pettigrew*, and Lina Dagnino	<b>The role of integrin-linked kinase in TGF-<math>\beta</math> receptor type II receptor stability during wound healing</b>
9:00 am	Nicholas Rapp* and Dr. Colin Steel	<b>Circadian Cycling of the Ecdysteroid Hormone 20-hydroxyecdysone in the Ovaries of the Adult Insect <i>Rhodnius prolixus</i>.</b>
9:15 am	Rebecca Rumney & Lucy Lee	<b>Effects of steroidal hormones on the infectivity of microsporidia to fish cells</b>
9:30 am	Reddy, Kiran; Jiang, Shucui; Su, Caixin.	<b>The inhibition and reversal of semaphorin 3A-induced growth cone collapse in adult sensory neurons by enteric glia</b>
9:45 am	Ayesha Raza*, Lena Jamal, Huiming Zhang	<b>The effects of salicylate on GABA<sub>B</sub> receptor expression in auditory structures</b>

**Room N1002**

TIME	SPEAKER	TITLE
8:30 am	Pichini A*, Hegele RA, Lahiry P, Provost-Martins R, McIntyre A.	<b>Identification of causal mutations in rare patients by automated DNA sequencing and whole exome sequencing.</b>
8:45 am	Rami Mechael*, Osama Batiha and Andrew Swan	<b>Meiosis Specific Function and Regulation of the Anaphase Promoting Complex.</b>
9:00 am	Vaunell Itaas*, Michael Holmes and Sirinart Ananvoranich	<b>Determination of Minimal <i>cis</i>-elements Responsible for Translational Control of Lactate Dehydrogenase 1 in <i>Toxoplasma gondii</i> by Site-directed Mutagenesis</b>
9:15 am	Hana Yosief	<b>Characterization of the CDK1-1N mutant.</b>
9:30 am	Allison Williams*, and Reggie Y.C. Lo.	<b>Complementation of non-haemolytic mutants of <i>Mannheimia haemolytica</i> A1.</b>
9:45 am	Emily Smenderovac* and Reggie Y.C. Lo.	<b>Analysis of <i>Ikt</i> mRNA from non-haemolytic mutants of <i>Mannheimia haemolytica</i> A1.</b>





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Room N1042		
TIME	SPEAKER	TITLE
8:45 am	Mathew R. Voisin*, Adam R. Reddon, & Sigal Balshine	<b>The effects of isotocin on conspecific group preferences in <i>Neolamprologus pulcher</i></b>
9:00 am	Samantha Dundas*, David Wilson, & Daniel Mennill	<b>Mechanisms of conspecific and heterospecific communication in Black-capped Chickadees</b>
9:15 am	Valerie Miller*	<b>Factors affecting Canada Goose (<i>Branta canadensis interior</i>) nest defence behaviour on Akimiski Island, Nunavut</b>
9:30 am	Nicolas J. Muñoz*, Ross D. Breckels, and Bryan D. Neff.	<b>Compensation response of the Trinidadian guppy (<i>Poecilia reticulata</i>) upon thermal acclimation</b>
9:45 am	Emma Leach*, Graham J. Thompson	<b>A test for genotypic influence on caste in the Eastern subterranean termite</b>
Room N1044		
THERE ARE NO SEMINARS SCHEDULED IN THIS ROOM DURING THIS SESSION.		
Room N1057		
TIME	SPEAKER	TITLE
8:45 am	Saroiu Tudor	<b>Are fat bodies of the adult <i>Rhodnius proxilus</i> a rhythmic target for the steroid hormone ecdysone?</b>
9:00 am	Carolyn Czyrko	<b>The effects of PACAP-38 on muscle contractions in <i>Drosophila</i> larvae</b>
9:15 am	Priyanka Patwary	<b>Effect of FMRFamide on <i>Drosophila</i> larval whole body muscle contraction</b>
9:30 am		
9:45 am	Claudia Augustine	<b>Is there a metabolic suppression in the brain mitochondria of hibernating thirteen-lined ground squirrel, <i>Ictidomys tridecemlineatus</i></b>
Room N1059		
TIME	SPEAKER	TITLE
8:30 am	Bashar Jameel*, Martin Crozier and Lisa A. Porter	<b>The implications of Glucocorticoids on Breast Cancer Survival and Proliferation</b>
8:45 am	Ara Cho*, Espanta Jalili, Lisa A. Porter	<b>The Role of Spy1 Localization in the DNA Damage Response</b>
9:00 am	Egorova, Olga.*	<b>Functional analysis of the human E3 ligase MdmX.</b>
9:15 am	Kaitlin Martinello*, Elizabeth Fidalgo da Silva and Lisa A. Porter	<b>Nutritional Availability Influences Tuberin's role as a Mitotic Regulator</b>
9:30 am	Megan DeMille*, and R Greg Thorn.	<b>Identification of Basidiomycota isolated from bats, using DNA sequence analysis and septal pore imaging</b>
9:45 am	Ariana Marcassa* and Trevor Charles	<b><i>Sinorhizobium meliloti</i> 1021: The Metabolic Link Between Carbon Source Utilization and Nitrogen Fixation</b>

**10:00- 10:15 Refreshment Break**  
*Sponsored by Pearson Canada*



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<b>SESSION #4</b>		
<b>Room N1001</b>		
<b>TIME</b>	<b>SPEAKER</b>	<b>TITLE</b>
10:15 am	Narendrula, Rashmi*, Armstrong, Stephen., Tam, Adam., Parissenti, Amadeo, and Lanner, Carita.	<b>Validating gene expression changes detected by microarray analysis in drug resistant ovarian cancer cell lines using Q-PCR</b>
10:30 am	Maxine Myre*, Dr. Nadia Mykytczuk, Dr. Leo Leduc and Dr. Thomas Merritt	<b>Isolation and Identification of Bacterial Species from an Acid Mine Drainage Site in Copper Cliff, Ontario</b>
10:45 am	Tallulah Andrews*, Jonathan Dushoff	<b>Limiting R0: Selection for Epidemic Frequency in Spatially Structured Host Populations.</b>
11:00 am	Robyn Morrison* and Dr. R. Slawson	<b>Antibiotic Resistance Patterns in <i>Salmonella</i> Isolated from a Treatment Lagoon System</b>
11:15 am	Natacha Montepellier*, Julie Tessier* and L.G. Leduc	<b>Potential Antimicrobial Properties of Select Natural Products Using a Resazurin Microtitre</b>
<b>Room N1002</b>		
<b>TIME</b>	<b>SPEAKER</b>	<b>TITLE</b>
10:15 am	Susan T Eitutis*, AE Wishart, KA Hill	<b>A genome-wide genotyping array detects clusters of mutations in the genome of the <i>harlequin</i> mouse model of neurodegeneration</b>
10:30 am	Hugh Quinn*, Elizabeth Fidalgo da Silva and Lisa A. Porter	<b>The temporal and spatial expression of TSC2 throughout neural development</b>
10:45 am	Nicole D'Alessandro*, Thomas A.	<b>The molecular basis of <i>Xenopus laevis</i> gene expression in the thyroid and lung</b>
11:00 am	Michael J. Thwaites*, AM Laliberté, KA Hill	<b>Increased para-inflammatory response is associated with neurodegeneration in the cerebellum of <i>harlequin</i> mice</b>
11:15 am	Xin Y. Bing*, Jian Zhang, Heath A. MacMillan, and Brent J. Sinclair	<b>Developmental and evolutionary analysis of <i>Frost</i> expression during cold recovery in <i>Drosophila</i></b>
<b>Room N1042</b>		
10:15 am	B. Prashad*, M.B. Fenton, M. Lachance, C. Williams	<b>The role of radiocarpal morphology in prey handling behaviour among Phyllostomid species</b>
10:30 am	Derek Green & J. Millar	<b>The feeding responses of <i>Peromyscus maniculatus</i> and <i>Myodes gapperi</i> in their natural environment to the seeds of <i>Abies lasiocarpa</i></b>
10:45 am	Alex Connaty & Scott Ramsay	<b>Migration Patterns of the White-throated Sparrow (<i>Zonotrichia albicollis</i>): A Stable Isotope Approach</b>
11:00 am	Kyle Empringham	<b>Feeding Ecology of the round goby, <i>Neogobius melanostomus</i></b>
11:15 am	Victoria Ransberry	<b>Thermal plasticity of chill coma: the relationship between chill-coma onset and recovery in <i>Drosophila melanogaster</i></b>
<b>Room N1057</b>		
<b>TIME</b>	<b>SPEAKER</b>	<b>TITLE</b>
10:15 am	Ataulhaq Ansari	<b>Neurochemical processes in the <i>C. elegans</i> dopamine neuron system</b>
10:30 am	Alex Bicket	<b>The role of calmodulin (CaM) in regulating the nucleoside transporter hENT1</b>
10:45 am	Dunstan Pushpakumar	<b>Systematic reviews of knowledge translation interventions: next steps to optimize implementations</b>
<b>Room N1059</b>		
<b>THERE ARE NO SEMINARS SCHEDULED IN THIS ROOM DURING THIS SESSION.</b>		



**Wilfrid Laurier University presents**  
**ONTARIO BIOLOGY DAY 2011**  
SEMINAR AND POSTER  
PRESENTATIONS



**11:30-12:00 JUDGES' DELIBERATIONS**

**12:00 PM CLOSING REMARKS AND AWARD  
PRESENTATIONS  
N1001**

**Lunch boxes will be available for all guests to take along on their way home!**