WELCOME 2ND YEAR BIOLOGY STUDENTS!

Hosted by:

McMaster University
BIOLGY

Dr. Robin Cameron,
Associate Chair (undergraduate)

Matthew Bianca, BioSociety
2\textsuperscript{nd} Year Welcome

- Purpose: introduce you to faculty members in the Biology department
- Chance to get insight into your current/future biology courses
- Mingle! Get to know your fellow biology peers, BioSociety executive and Bio Professors
Skills Development in Biology

LAB Courses
Bio 2A03 (Animal Phys), 2D03 (Plant), 2EE3 (Microbio), 2F03 (Ecology), 2L06 (newish) Expt Design in Bio
Bio 3B03 (Plant Physiology)
Bio 3MM3 (Invert Form & Func)
Bio 3UO3 (Animal Phys-homeostasis)
Bio 3VV3 (new) Lab Methods in Mol Bio
Bio 3XL3 (Comparative Vert Anatomy)
Mol Bio 3DO3 (new) Cell Bio lab
Mol Bio 3M03 (Development)
Mol Bio 3V03 (Techs in MG)

FIELD Courses
Bio 3JJ3 (new) Eco Field Methods
Bio 3R03,3RFO (Field Bio I)
Bio 4J03, 4JF0 (Field Bio II)
Prereqs: Level I Bio & Stats, maybe 2F03
~30 courses/year, various universities
Examples
Field Entomology, Elgin ON, Marvin Gunderman, McMaster
Subtropical Ecology, China, Dr. JP Xu, McMaster
For 2017
http://www.biology.mcmaster.ca/field-biology.html

Independent Research Courses
Bio 3IR3, Mol Bio 3IO3 (3 units)
Bio4F06 (6 units), Bio4C09 (9 units)

Experiential Learning
Bio3EP3, 3 units
Skills Development in Biology

Level III and IV Courses will improve your

**Critical Thinking Skills**
- problem-based learning
- inquiry-based learning
- writing assignments & tests with written answers

**Group Work Skills**
- during labs, field work
- during PBL and Inquiry Projects

**Communication Skills**
- presentations for PBL and Inquiry projects
- writing skills during assignments, tests
McMaster Biology Society

Academic club providing Biology students with a multitude of academic, social, fundraising and networking events throughout the year!
Academic Events

McMaster Biology Society’s
Grad School Information Night

February 12th, 2015
6-8 PM
LSB Lounge (LSB 213)

- Presentations from the Biology Graduate Student Society (BGSS)
- Talk to graduate students about their experiences

Learn about:
- Different fields of biology
- Different aspects of graduate school

mcmasterbiology@gmail.com | LSB 112
Social/Networking Events

October 19th, 2016
Great Hall, UC

McMASTER BIOLOGY SOCIETY
WINE AND CHEESE NIGHT
6 - 9 pm
Meet and network with professors and other students!
mcmasterbiology@gmail.com | LSB 112

THE MOMASTER BIOLOGY SOCIETY PRESENTS
Insect and Biodiversity Night
Join the Biology Society for a night of fun!
Everyone is invited for a reptile show where you can interact with and take pictures of animals

MSU CLUBS
Information Sessions

MCMASTER BIOLOGY SOCIETY PRESENTS

THE PRINCETON REVIEW INFORMATION SESSION

Are you thinking of applying to Medical School?

Haven't written your MCAT yet?

Planning on taking a test prep course?

Come out to a comprehensive overview of what the MCAT is!
Contact Us!

• **E-mail** us at: mcmasterbiology@gmail.com

• Connect to us through social media:
  – **Facebook**: McMaster Biology Society Page
  – **Twitter**: https://twitter.com/macbiosoc
  – **Instagram**: @macbiosoc

• Drop in and visit during office hours
  1:30 – 3:30 every Mon-Thurs, located in LSB 112!
Check Us Out
1st & upper year Professors

Dr. G. B. Golding
Professor
Courses: Bio 1A03, 3S03
Research Interests:
Molecular evolution, DNA sequence analysis, phylogenetics, population genetics, Bioinformatics.

Dr. T. M. Finan, Professor
Courses: Bio 1A03, 2EE3, Bio4F06/4C09
Research Interests:
Molecular genetic studies on symbiotic N2-fixation phosphate, metabolism, plasmid genetics.

Dr. R. DaSilva
Assistant Professor
Courses: Bio 1A03
Research Interests:
Cellular & molecular mechanisms of systemic animal physiology, developmental biology, human & comparative anatomy & physiology
1st and upper year Professors

Dr. J. R. Stone
Associate Professor
Courses: Bio 1M03, Bio 3FF3
Research Interests: Computational biology at multiple levels: gene, cell, tissue, individual, population, species and taxon.

Dr. L. Kajiura
Assistant Professor
Courses: Bio 1M03, 1A03, 2F03, 4A03
Research Interests: Organismal ecology, analysis of transgenic rat growth hormone mouse model.

Dr. R. M. Singh
Professor
Courses: Bio 1P03
Research Interests: Evolutionary genetics, molecular genetics of speciation in Drosophila evolution of human diversity and social systems.
1st and upper year Professors

Dr. J. Quinn, Professor

Courses: Bio 1M03, Bio 4AA3

Research Interests: Genetic relatedness, parentage & behavioural ecology of colonial & cooperative-breeding birds.

Dr. B. Evans, Associate Professor

Courses: Bio 1M03, Mol Bio 4DD3

Research Interests: Biotic and abiotic processes of diversification, molecular evolution of duplicate genes
2nd Year Professors

Dr. G. Scott, Assistant Professor

Courses: Bio 2A03

Research Interests:
Integrative mechanisms (from molecule to organism) for how vertebrate animals tolerate and perform in challenging physical environments.
Dr. B. Gupta, Associate Professor & Associate Chair (Graduate)
Courses: Bio 2C03
Research Interests:

Dr. K. Dej, Assistant Professor
Courses: Bio 2C03
Research Interests:
Regulatory pathways that orchestrate chromosome behaviors vital to proper partitioning of genetic material during cell division.
2nd and upper year Professors

Dr. X. Zhu, Associate Professor

Courses: Bio 2C03, Mol Bio 4K03
(new in fall of 2016, Biology of Aging)

Research Interests: Telomere maintenance and Genome Integrity
2nd and upper year Professors

Dr. R. K. Cameron, Professor & Associate Chair (Undergraduate)

Courses: Bio 2D03, 2L06 plant lab, Mol Bio 3Y03
Research Interests: Plant immunity: signal transduction pathways and mechanisms responsible for resistance to disease

Dr. S. Dudley, Professor

Courses: Bio 2D03, 3JJ3, iSci
Research Interests: Evolutionary ecology of carbon acquisition traits in plants: kin recognition in plants; phenotypic plasticity to competitors; local adaptation to abiotic stress.
2nd and upper year Professors

Dr. S. A. Igdoura
Associate Professor

Courses: Bio 2B03, Mol Bio 4RR3

Research Interests: Role of sialidase in human disease.
2nd year Professors

Dr. J. Daniel, Professor

Courses: Bio 2L06

Research Interests: Cancer Biology, Cadherin-Catenin mediated cell adhesion and signaling, POZ Transcription Factors.
3rd Year Professors

Dr. J. Kolasa, Professor

**Courses:** Bio 3DD3, iSci

**Research Interests:** How complexity and community interactions affect species extinctions and levels of biodiversity at various scales of time and space.

Dr. J. Dushoff, Associate Professor

**Courses:** Bio 3SS3

**Research Interests:** theoretical, statistical and computational approaches to understanding the evolution and spread of infectious diseases.
3rd & 4th Year Professors

Dr. A. R. Campos, Professor

Courses: Mol Bio 3M03, Mol Bio 3D03 (new, Experimental Approaches in Cell Biology)
Co-ordinator of Bio3IR3, 3EP3, Mol Bio 3I03, 4GG9

Research Interests: Genetic & molecular analysis of visual system development in Drosophila melanogaster.

Dr. M. A. Elliot, Associate Professor

Courses: Mol Bio 3O03, 3V03

Research Interests: Development in multicellular bacteria; regulation by small RNAs; antibiotic production.
Dr. E. A. Weretilnyk, Professor

Courses: Bio 3B03, Mol Bio 4BB3

Research Interests: Biochemical and molecular genetic analysis of plant metabolic adaptations towards environmental stress.

Dr. A. Bédard, Professor

Courses: Mol Bio 3II3, 4H03, iSci

Research Interests: Study of gene expression and regulatory mechanisms involved in maintenance of genome stability and development of cancer cells.
3rd & 4th Year Professors

Dr. M. J. O’Donnell, Professor

Courses: Bio 3U03, 3P03

Research Interests: Cellular mechanisms of epithelial ion transport. Control of ion transport by peptides and intracellular second messengers.

Dr. G. B. McClelland, Associate Professor

Courses: Bio 3XL3, 4X03

Research Interests: The physiological, biochemical and molecular determinants of animal performance.
Dr. C. D. Rollo, Professor

Courses: Bio 3UU3, 4AE3

Research Interests: The integration and functions of behaviour, morphology and physiology relevant to the ecological design of organisms.

Dr. J. Wilson, Associate Professor

Courses: Bio 3AA3, 3ZZ3

Research Interests: Environmental physiology and aquatic toxicology of vertebrates, cytochrome P450 proteins, endocrinology.
3rd year Professors

Dr. H. E. Schellhorn, Professor

Courses: Mol Bio 3CC3, Mol Bio3A03

Research Interests: Systems biology, bioinformatics and functional genomics
Dr. J-P Xu, Professor

Courses: Bio 4PP3, Mol Bio 4P03

Research Interests:
Study of microbe evolution mechanisms and patterns in a variety of hosts.

Dr. I. Dworkin, Assistant Professor

Courses: Bio 4E03 and Bio 4ED3 (new, Evolutionary Developmental Biology)

Research Interests: Genetic and genomic approaches to the study of phenotypic evolution
Professors not Teaching in Biology This Year

Dr. B. Bolker, Professor

Research Interests: spatial, theoretical, mathematical, computational and statistical ecology, evolution and epidemiology (evolution of virulence, interactions with epidemiological dynamics-West Nile Virus, plant dispersal)

Dr. P. Chow-Fraser, Professor

Research Interests: Assessment of anthropogenic impacts on the functional ecology of freshwater ecosystems, in particular, lakes and wetlands of the Great Lakes basin.
Professors not teaching in Biology this year

Dr. C. A. Nurse, Professor
Recently retired, continues to supervise 4C09 & NSERC USRA summer students

**Research Interests:** Ion channels and signal transduction in sensory receptors; nerve-target interactions in vitro; O2-sensing mechanisms.
Professors not teaching in Biology this year

Dr. J. R. Jacobs,
Professor & Department Chair

Research Interests: Regulation of cell surface signaling during morphogenesis of the heart and nervous system in *Drosophila*, using genetic, morphological and molecular tools.
Instructional Assistants

**Alison Cowie:** Bio 2B03, 2EE3, 2L06, 3VV3, 3V03

**Marvin Gunderman:** Bio 2F03 and all field biology modules

**Mihaela Georgescu:** Bio/Mol Biol 2C03, 2D03, Mol Bio 3M03

**Sinah Lee:** Bio 2A03, 3B03, 3U03

**Thelma Leech:** Bio 1M03

**Alastair Tracey:** Bio 1A03
Thanks for listening!

Thanks for coming and enjoy the food in the lobby while mixing and mingling😊