

# Biology 4999E Potential Supervisors

Biology Department Website: <http://www.uwo.ca/biology/>  
Check web sites for detailed information of research area  
2018-2019

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STUDENTS MUST BRING A COPY OF THEIR UNOFFICIAL TRANSCRIPT TO INTERVIEWS

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Students are **NOT** restricted to this list for placements. In the past, supervisors have come from Robarts Research Institute, Departments in Schulich School of Medicine & Dentistry, and London Hospitals [LHSC/SJHC]. For an outside supervisor, a co-supervisor may be needed. Check with Course Coordinator. Co-supervisors are usually found with the help of the supervisor.

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## ECOLOGY AND EVOLUTION

**Dr. Christopher Guglielmo**, Ext. 84648, [cguglie2@uwo.ca](mailto:cguglie2@uwo.ca), BGS 3012  
Subject Area: Energy and nutrient metabolism in migratory birds

**Dr. Marc-André Lachance**, Ext. 83752, [lachance@uwo.ca](mailto:lachance@uwo.ca), BGS 2036  
Projects:

- (1) Comparative study of mating genes in the yeast genus *Metschnikowia*
- (2) Conservation of synteny in large-spored *Metschnikowia* species

Note: student should have a strong background in computing and/or bioinformatics

**Dr. Jeremy McNeil**, Ext. 83487, [jmcneil2@uwo.ca](mailto:jmcneil2@uwo.ca), BGS 3066  
Research Area: Behavioural and Chemical Ecology of Insects

**Dr. Bryan Neff**, 519-850-2532, [bneff@uwo.ca](mailto:bneff@uwo.ca), Collip Bldg. CB 204  
Project area: Molecular and Behavioural Ecology of Fishes

**Dr. Ben Rubin**, Ext. 87475, [brubin2@uwo.ca](mailto:brubin2@uwo.ca), BGS 3072  
Potential Projects: Forest structure and particularly in studying the spatial distribution of forest trees

**Dr. G. Taylor**, Ext. 81467, [gtaylor8@uwo.ca](mailto:gtaylor8@uwo.ca), BGS 2066  
Project area: Evolution and ecology of animal design (biomechanics)

**Dr. R. Gregory Thorn**, Ext. 88647, [rgthorn@uwo.ca](mailto:rgthorn@uwo.ca), BGS 3047  
Project area: Projects in fungal phylogeny and/or ecology based on DNA sequences from field and lab samples

**Dr. Vera Tai**, Ext. 86209, [vtai4@uwo.ca](mailto:vtai4@uwo.ca), BGS 2028  
Research Area: Microbial genomics, aquatic microbial ecology, zooplankton ecology

**Dr. L. Zanette**, Ext. 88317, [lzanette@uwo.ca](mailto:lzanette@uwo.ca), CB 207  
Research Area: Predator-prey interactions and the Ecology of Fear  
For more information on the work we do in my lab, please see my webpage: [lianazanette.com](http://lianazanette.com)

## MOLECULAR AND CELLULAR BIOLOGY

**Dr. Kathleen Hill**, Ext. 81337, [khill22@uwo.ca](mailto:khill22@uwo.ca), WSC 333  
Website: <http://www.uwo.ca/biology/directory/faculty/hill.html>

**Dr. Jim Karagiannis**, Ext. 80975, [jkaragia@uwo.ca](mailto:jkaragia@uwo.ca), BGS 3080  
Project: Molecular genetic analysis of the regulatory networks governing cytokinesis

**Dr. Greg Kelly**, Ext. 83121, [gkelly@uwo.ca](mailto:gkelly@uwo.ca), WSC 359  
Research Area: Cell Signaling in Vertebrate Embryos

**Dr. Amanda Moehring**, Ext. 85596, [amoehrin@uwo.ca](mailto:amoehrin@uwo.ca), BGS 2080  
Projects: The genetic and neural basis of receptive behaviour

**Dr. Anthony Percival-Smith**, Ext. 84015, [aperciva@uwo.ca](mailto:aperciva@uwo.ca), WSC 305  
Project Area: Drosophila developmental genetics

**Dr. Anne Simon**, Ext. 80084, [asimon28@uwo.ca](mailto:asimon28@uwo.ca), BGS 3022  
Research Area: Genetics of social behavior

**Dr. Shiva Singh**, Ext. 83135, [ssingh@uwo.ca](mailto:ssingh@uwo.ca), WSC 307  
Research Area: genetic variation including human molecular genetics deals with genetic and epigenetic factors associated with complex diseases and phenotypes

**Dr. Graham Thompson**, Ext. 86570, [gthomp6@uwo.ca](mailto:gthomp6@uwo.ca), BGS 2068  
Research Area: Behavioural genetics and sociobiology of insects

**Dr. Alexander Timoshenko**, Ext. 88900, [atimoshe@uwo.ca](mailto:atimoshe@uwo.ca), BGS 3032  
Research Area: Cell biology, galectins, cellular stress responses, endoplasmic reticulum stress, cancer biology

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## PHYSIOLOGY AND BIOCHEMISTRY

**Dr. M. Bernards**, Ext. 86477, [bernards@uwo.ca](mailto:bernards@uwo.ca), BGS 2025  
Projects will be related to plant interaction with the environment, with focus on biochemistry and natural products.

**Dr. Sheila M. Macfie**, Ext. 86487, [smacfie@uwo.ca](mailto:smacfie@uwo.ca), BGS 2051  
Research Area: research in the Macfie lab is all about environmental contaminants and their effects on plants. Our experiments address the following types of questions: What controls contaminant uptake? How does a plant 'decide' where to put contaminants that are taken up? What are the physiological mechanisms of tolerance? and Can bacteria help increase plant tolerance to stress? Have a look at the list of past projects (under the 'people' tab on my web site (<http://www.uwo.ca/biology/directory/faculty/macfie.html>)) to get a sense for the types of research projects previous Bio 4999 or ES 4999 students have worked on in my lab.

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**Agriculture and Agri-Food Canada Potential Supervisors**  
**[1391 Sandford St., London, ON N5V 4T3]**

**Dr. Sangeeta Dhaubhadel**, 519-953-6616, [Sangeeta.Dhaubhadel@agr.gc.ca](mailto:Sangeeta.Dhaubhadel@agr.gc.ca)

Subject Area: Contact professor directly.

**Dr. Abdelali Hannoufa**, 519-953-6621, [Abdelali.Hannoufa@agr.gc.ca](mailto:Abdelali.Hannoufa@agr.gc.ca)

Project Area: The project will involve studies on miR156 in plants. The student will conduct a study to investigate temporal and spatial patterns of expression of miR156 and its target SPL genes as well as miR172 in alfalfa. He/She will extract RNA from whole plants at different developmental stages, and also from specific organs, such as flowers and leaves, and assess transcript levels of miR156, miR172 and SPL genes using small RNA northern blots (for miR156 and miR172) and quantitative real time-PCR (for SPL genes). This study will contribute to a better understanding of the dynamics underpinning the roles of these genes in determining flowering time in plants.

**Dr. Frederic Marsolais**, 519-953-6718, [Frederic.Marsolais@agr.gc.ca](mailto:Frederic.Marsolais@agr.gc.ca)

Project: Transcriptional regulation of gene expression by asparagine in *Arabidopsis thaliana*  
We have identified several marker genes responding to exogenous asparagine in Arabidopsis root. The project consists in characterizing potential regulatory elements in their promoter. To this end we have generated transgenic lines expressing fusions of the promoter with the reporter gene luciferase. This project is suitable for a student interested in transcriptional regulation.

**Dr. Rima Menassa**, 519-953-6636, [rima.menassa@agr.gc.ca](mailto:rima.menassa@agr.gc.ca)

Research Area: Plant molecular biology

## **PAST SUPERVISORS – you would have to contact to see if they are taking on any students.**

**Dr. G. Dimattia**, 519- 685-8500 Ext. 53625, dimattia@uwo.ca LRCC [Dept. of Oncology, Biochemistry]  
Website: [http://www.lhsc.on.ca/Research\\_Training/LRCP/Research\\_Scientists/GDiMattia.htm](http://www.lhsc.on.ca/Research_Training/LRCP/Research_Scientists/GDiMattia.htm)

**Dr. T. Drysdale**, 519-685-8500 Ext. 55072, tadrysa@uwo.ca, LHSC-VC [Dept. of Physiology & Pharmacology]  
Website: [http://www.uwo.ca/physpharm/faculty/drysdale\\_thomas.html](http://www.uwo.ca/physpharm/faculty/drysdale_thomas.html)

**Dr. R. Hegele**, 519-663-3461, hegele@roberts.ca, Roberts Research Institute  
Website: <http://www.roberts.ca/rob-hegele>

**Dr. George Lazarovits**, 519-457-2575 Ext. 246, Lazarobitsg@alcanada.com  
Website: [http://www.albiologicals.com/?page\\_id=884](http://www.albiologicals.com/?page_id=884)

**Dr. A. Leask**, Ext. 81102, andrew.leask@schulich.uwo.ca  
Website: <http://www.schulich.uwo.ca/leasklab/>

**Dr. Steve Lomber**, Ext. 24110, steve.lomber@uwo.ca, SSC 2932  
Website: <http://cerebralsystems.ca/research/>

**Dr. Martin Stillman**, Ext. 83821, martin.stillman@uwo.ca, Dept. of Chemistry, ChB 064.  
Project areas: [www.stillmangroup.ca](http://www.stillmangroup.ca)

**Dr. F. Beier**, x85344, fbeier@uwo.ca, DSB 0065 [Dept. of Physiology & Pharmacology]  
Website: <http://www.uwo.ca/physpharm/beier/>

**Dr. Nathalie Berube**, 519-85-8500 Ext. 55066, nberube@uwo.ca, Children's Health Res. Institute  
Website: <http://publish.uwo.ca/~mlevy4/berube/home.html>

**Dr. John Ciriello**, Ext. 3484, john.ciriello@schulich.uwo.ca, DSB 2000  
Website: <http://www.uwo.ca/physpharm/ogirc/members/member-profiles/ciriello.html>

**Dr. Ed Lui**, Ext. 83320, elui@uwo.ca (Department of Physiology and Pharmacology)  
Website: [http://www.schulich.uwo.ca/physpharm/people/bios/faculty/lui\\_edmond.html](http://www.schulich.uwo.ca/physpharm/people/bios/faculty/lui_edmond.html)

**Dr. Shengwa Ma**, Phone 519-858-5088, sma@uwo.ca, Stiller Center  
Website: <https://www.lawsonresearch.ca/scientist/dr-shengwu-ma>

**Dr. Tony Rugar**, Tel: (519) 685-8129, trugar@uwo.ca, Department of Paediatrics, 800 Commissioners Road East, Rm E6-103  
Website: [https://www.schulich.uwo.ca/pathol/people/bios/faculty/rugar\\_tony.html](https://www.schulich.uwo.ca/pathol/people/bios/faculty/rugar_tony.html)

**Dr. C. Seguin**, Ext. 82977, [cheryle.seguin@schulich.uwo.ca](mailto:cheryle.seguin@schulich.uwo.ca), Dept. of Physiology and Pharmacology  
Website: <http://publish.uwo.ca/~csegu3/Seguinlab/Home.html>

**Dr. C. Pin**, 519-685-8500 Ext. 53073, [cpin@uwo.ca](mailto:cpin@uwo.ca)  
Website: [http://www.schulich.uwo.ca/physpharm/people/bios/faculty/pin\\_christopher.html](http://www.schulich.uwo.ca/physpharm/people/bios/faculty/pin_christopher.html)

**Dr. P. Lajoie**, Ext. 88220, [plajoie3@uwo.ca](mailto:plajoie3@uwo.ca)  
Website: <http://www.lajoielab.com/>

**Dr. D. Betts**, 519-661-3786 Ext. 83786, [dean.betts@schulich.uwo.ca](mailto:dean.betts@schulich.uwo.ca)  
Website: [http://publish.uwo.ca/~dbetts/Dean\\_H.\\_Betts/Welcome.html](http://publish.uwo.ca/~dbetts/Dean_H._Betts/Welcome.html)

**Dr. S. Renaud**, Ext. 88272, [srenaud4@uwo.ca](mailto:srenaud4@uwo.ca)  
Website: [http://www.schulich.uwo.ca/anatomy/people/bios/faculty/renaud\\_stephen.html](http://www.schulich.uwo.ca/anatomy/people/bios/faculty/renaud_stephen.html)

**Dr. D. Hess**, 519-663-5777, Ext. 24152, [dhess@robarts.ca](mailto:dhess@robarts.ca)  
Website: [http://www.schulich.uwo.ca/physpharm/people/bios/faculty/hess\\_david.html](http://www.schulich.uwo.ca/physpharm/people/bios/faculty/hess_david.html)

**Dr. D. O’Gorman**, 519-646.6100 Ext. 64397, [dogoman@uwo.ca](mailto:dogoman@uwo.ca)  
Website: <http://www.uwo.ca/surgery/plastics/HULCcellmollab/index.htm>

**Dr. P. Lala**, 519-661-3015, [pklala@uwo.ca](mailto:pklala@uwo.ca)  
Website: <http://www.uwo.ca/anatomy/lalalab/>

**Dr. K. Willmore**, Ext. 88079, [Katherine.willmore@schulich.uwo.ca](mailto:Katherine.willmore@schulich.uwo.ca)  
Website: [http://www.schulich.uwo.ca/anatomy/people/bios/faculty/willmore\\_katherine.html](http://www.schulich.uwo.ca/anatomy/people/bios/faculty/willmore_katherine.html)

**Dr. R. Dekoter**, Ext. 82084, DSB 3003  
Website: <http://publish.uwo.ca/~rdekoter/>

**Dr. L. Dunaratnam**, 519-663-3632, [gunarati@lhsc.on.ca](mailto:gunarati@lhsc.on.ca)  
Website: <http://lglab.ca/>

**Dr. S. Kim**, 519-850-296, SDRI 119, [sung.kim@schulich.uwo.ca](mailto:sung.kim@schulich.uwo.ca)  
Website: <http://www.kimlab-uwo.com/>