

## CURRENT RESEARCH OPPORTUNITY FOR THE MICROBIOLOGY & IMMUNOLOGY PROGRAM

**Graduate Program:** Microbiology & Immunology

**Research Cluster(s):**

**Supervisor(s):** Dr. Lillian Barra

**Keywords:** Immunology, Rheumatoid Arthritis, Autoantibodies, Animal Models, Immunomodulatory therapies

**Vacancies:** 1

**MSc/PhD or Postdoc Available?:** Masters (2 years)

**Description:** We are seeking a candidate with a PhD or equivalent degree in Immunology or a related field for a CIHR funded project exploring the role of immune responses to post-translationally modified proteins in the pathogenesis of rheumatoid arthritis. The candidate is expected to have recent experience with animal studies, immunological techniques and histopathology, as well excellent English communication skills. Interested individuals should submit their cover letter, curriculum vitae and 3 references to [lillian.barra@sjhc.london.on.ca](mailto:lillian.barra@sjhc.london.on.ca)

**To Apply:** Applicants must independently apply to the Microbiology & Immunology program using the online Western [application portal](#), **including a clear reference to the supervisor** (Please insert anything needed in addition to the traditional application)

**Application Deadline:** N/A

**Contact Information:** Questions regarding the application process, or inquiries about the program may be addressed to the [Academic Programs Coordinator](#), if trainees have questions with regard to the description above, you may contact Dr. Barra directly: [lillian.barra@sjhc.london.on.ca](mailto:lillian.barra@sjhc.london.on.ca)

## CURRENT RESEARCH OPPORTUNITIES

**Graduate Program:** Anatomy & Cell Biology, Biochemistry, Epidemiology and Biostatistics, Family Medicine, Medical Biophysics, **Microbiology & Immunology**, Pathology & Lab Medicine, Physiology & Pharmacology, Neuroscience, Surgery

**Research Cluster(s):** Roles of innate-like T lymphocytes in host responses to viral pathogens and psychological stress

**Supervisor(s):** Dr. M. Haeryfar

**Keywords:** immunology, T cells, SARS-CoV2, stress

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**Vacancies:** 2

**MSc/PhD or Postdoc Available?:** PhD (4-5 years)

**Description:** We have two PhD project openings. One project focuses on the role of specialized T cells in COVID-19 infection. The student will be examining the protective potentials of MAIT cells in mouse SARS-CoV2 infection models and whether their specific agonists could be used as a treatment or as a vaccine adjuvant. Our second project examines the effect of psychological stress on T cells. The student will use mouse models and CHIP sequencing to investigate how stress affects the localization and function of T cells. We are looking for students with backgrounds in immunology and molecular biology.

**To Apply:** Applicants must independently apply to the program using the online Western [application portal](#), **including a clear reference to the supervisor**

**Application Deadline:** None at this time

**Contact Information:** Questions regarding the application process, or inquiries about the program may be addressed to the [Academic Programs Coordinator](#), for more information about the description/design of the project, you may contact Dr. Haeryfar directly: [Mansour.Haeryfar@schulich.uwo.ca](mailto:Mansour.Haeryfar@schulich.uwo.ca)

## CURRENT RESEARCH OPPORTUNITIES

**Graduate Program:** Anatomy & Cell Biology, Biochemistry, Epidemiology and Biostatistics, Family Medicine, Medical Biophysics, **Microbiology & Immunology**, Pathology & Lab Medicine, Physiology & Pharmacology, Neuroscience, Surgery

**Research Cluster(s):**

**Supervisor(s):** Dr. Martin J. McGavin

**Keywords:** Staphylococcus aureus; lipid metabolism; antimicrobial fatty acids; colonization; skin and soft tissue infection

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**Vacancies:** 1

**MSc/PhD or Postdoc Available?:** MSc (2 years)

**Description:** A two year postdoctoral position with possibility of renewal for a third year is available. The candidate will lead and contribute to original research on a CIHR funded project that will evaluate sensing and metabolism of host lipids by Staphylococcus aureus as a means of promoting colonization and infection. The candidate will also contribute to student supervision, writing research and review articles, and will represent the lab by attending one international meeting per year.

**To Apply:** Applicants must independently apply to the program using the online Western [application portal](#), **including a clear reference to the supervisor**

**Application Deadline:** None at this time

**Contact Information:** Questions regarding the application process, or inquiries about the program may be addressed to the [Academic Programs Coordinator](#), for more information about the description/design of the project, you may contact Dr. McGavin directly: [mmcgavin@uwo.ca](mailto:mmcgavin@uwo.ca)

## CURRENT RESEARCH OPPORTUNITY FOR THE MICROBIOLOGY & IMMUNOLOGY PROGRAM

- Graduate Program:** Microbiology & Immunology
- Research Cluster(s):** HIV
- Supervisor(s):** Dr. Art Poon
- Keywords:** Bioinformatics, phylogenetics, virus evolution, HIV, molecular epidemiology
- Vacancies:** 2 (see below)
- MSc/PhD or Postdoc Available?:** Masters, Doctoral
- Description:** Graduate positions are available in the Poon lab to investigate the evolution of HIV-1 within hosts through the development and application of new phylogenetic methods. Prospective students must have prior experience in computer programming and working through a command line interface (if granted an interview, applicants should expect to be tested on their ability to code). Previous training in molecular evolution, probability and stochastic processes through undergraduate or graduate courses is recommended.
- To Apply:** Applicants must independently apply to the Microbiology & Immunology program using the online Western [application portal](#), **including a clear reference to the supervisor** (Please insert anything needed in addition to the traditional application)
- Application Deadline:** N/A
- Contact Information:** Questions regarding the application process, or inquiries about the program may be addressed to the [Academic Programs Coordinator](#), if trainees have questions with regard to the description above, you may contact Dr. Poon directly: [apoon42@uwo.ca](mailto:apoon42@uwo.ca)