

Post-Doctoral Scholar Position

A post-doctoral scholar position is available immediately under the supervision of Dr. Gregory Dekaban at the Robarts Research Institute and Department of Microbiology and Immunology, Schulich School of Medicine & Dentistry at Western University.

The successful candidate will be primarily responsible for facilitating research studies and projects involving spatial transcriptomics of brains of different, but related, transgenic mouse models of Alzheimer's Disease using the 10X Genomics Xenium Platform. The Xenium analyzer is a dedicated instrument within the Dekaban lab. The primary focus of the research is to examine how the brain's immune system evolves from controlling A β plaque induced neurotoxicity and the associated neuroinflammation in the early stages of the disease to driving immune cell senescence and exhaustion resulting in pathological neuroinflammation and cognitive decline. The applicant will become part of a team that comprises the Dekaban lab, Marco and Vania Prado lab, Jane Rylett lab and the Greg Fonseca lab.

The successful candidate will possess:

- A Ph.D. degree in immunology (with previous experience in neuroimmunology/neuroinflammation preferred) or molecular and cellular biology with experience in transcriptomics and bioinformatics.
- Previous experience in polychromatic flow cytometry and data analysis.
- Previous research experience working with transgenic mouse models.
- Previous research experience with working and analyzing large datasets using the statistics package R preferably in conjunction with Seurat with experience in coding.
- Previous research experience in bioinformatic analysis of transcriptomic data.
- Previous research experience within a team environment.
- A strong understanding of research methodology and data analysis.
- Advanced statistical training and knowledge of statistical software packages is preferred.
- Evidence of experience in preparation and publication of manuscripts.
- Excellent oral communication and technical writing skills.
- Ability to take guided initiative and to work in an organized fashion within a fast-paced research environment, including flexibility in shifting between independent and collaborative work;
- Demonstrated collegiality, professionalism and interpersonal skills.

The Robarts Research Institute at Western University is internationally renowned for cross-disciplinary research in neuroscience and with strong links to the Western Institute for Neuroscience as well as London area hospitals. Robarts has a vibrant research community and many opportunities for collaborations. The University of Western Ontario (www.uwo.ca) is a major educational and research center in Ontario with over 30,000 undergraduate and 5,000 graduate students. London is an affordable and lively community close to the Great Lakes and two hours from Toronto. The city offers many options for outdoor and cultural activities.

Rate of Pay: Commensurate with experience.

Applications will be reviewed as received until the position is filled. Please send a letter of application including a one-page description of research experience and interests, updated curriculum vitae, and names & contact information of three referees to: dekaban@uwo.ca