Postdoctoral Researcher in the laboratory of Dr. Beverley Orser, Department of Physiology, University of Toronto

A Postdoctoral Researcher position funded by CIHR (Canadian Institutes of Health Research) is available in the laboratory of Dr. Beverley Orser (www.orserlab.com). The lab is located in the Department of Physiology, University of Toronto. It is also affiliated with the Department of Anesthesia, University of Toronto and part of a multidisciplinary centre for perioperative brain health at Sunnybrook Research Institute (www.perioperativebrainhealth.com).

The research goals are to identify the receptors and networks underlying general anesthesia and the molecular basis of adverse effects associated with anesthesia. We are interested in how anesthesia impacts cognition, and are developing strategies to translate research into improvements in patient care. We also aim to identify novel treatment for neurological disorders, including cognitive dysfunction, seizures, pain and mood disorders by targeting specific inhibitory receptors. Our team first identified the unique pharmacological properties of "extrasynaptic" inhibitory $GABA_A$ receptors. We are investigating the role of these receptors in health and diseases.

Qualifications:

1. Ph.D. degree in Neuroscience or other related field in the Health Sciences with research experience in molecular or cellular biology, immunology, or biochemistry.
2. Strong biochemical technical expertise, including but not limited to PCR, Western blotting, Co-IP, gel electrophoresis, and ELISA, etc.
3. Essential job functions include: Planning and carrying out projects involving genotyping and colony maintenance of mice with the above-mentioned techniques; involvement in developing improved techniques, methods or procedures; analyzing results; drafting reports and manuscripts.
4. Prior experiences with animal behavioral assays, electrophysiology, and optogenetics are assets.
5. A good record of scientific publications, strong organizational skills, self-motivation and the ability to work well independently as well as in a team environment.

The laboratory provides an excellent training environment and we are strongly committed to training high-quality researchers who are interested in advancing translational neuroscience. The laboratory is also strongly committed to diversity within the communities and especially welcomes applications from racialized persons/persons of color, women, indigenous/Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Interested candidates should send a Cover Letter, a CV, transcripts, and the names of three references to Dr. Dianshi Wang (dianshi.wang@utoronto.ca).