

Postdoctoral position in the molecular physiology of insect freeze tolerance

We are looking for a creative, enthusiastic, ambitious and independent postdoc to help us figure out why some insects can survive being frozen solid. The ideal candidate will have a background in insect physiology or thermal biology, and be excited to broaden into functional genomics (or a functional genomics/ molecular physiology background and a hankering to learn about thermal biology and insects). The exact project is open: it is an opportunity to develop questions and experiments in an exceptional training environment.

The successful applicant will develop an innovative research project that advances our understanding of the mechanisms underlying insect freeze tolerance. The primary model will be *Gryllus* crickets, and the lab is well-resourced for RNAi, RNA-Seq, GC/LC-MS-based metabolomics and lipidomics, and a range of microscopy techniques. The successful applicant will have a PhD in comparative physiology/ biochemistry or functional -omics, multiple publications in international journals, and have experience or an interest in working on thermal biology of insects.

The Sinclair lab is a dynamic and productive group of researchers with a dedication to diversity, rigour, and training, with a very strong record of lab members succeeding both inside and outside academia. Our group culture is very important to us: the successful applicant will be the kind of person that plays nicely with others, works hard, gives generously of their time to help lab mates, understands the importance of work-life balance, and appreciates the value of giving and receiving honest and constructive feedback. The successful applicant will contribute to intellectual leadership in the group, and to take ownership of their project from day 1. There will be formal and informal opportunities to mentor undergraduate and graduate students.

This position is based in the Department of Biology at Western University in London, Ontario, Canada. For more information about the lab and its activities, visit our website at <http://publish.uwo.ca/~bsincla7/>. Feel free to contact Brent or other lab members by email for further information (and to get a pre-publication copy of our forthcoming major review on insect freeze tolerance).

The position will be for a minimum of two years and includes benefits. Applicants must have received their PhD within the past 5 years, and be willing to start in mid-late 2018.

Applications should include a cover letter, CV, and the names and contact details of three referees. Please email them as a single .pdf file to Dr. Sinclair at bsincla7@uwo.ca by 3pm EDT on **Wednesday May 23rd, 2018**.