

Post-Doctoral Position in Plant Evolutionary Genomics at the University of Toronto

We are seeking applications for a Post-Doctoral Researcher to study the evolutionary genomic consequences of plant sexual reproduction in the Department of Ecology and Evolutionary Biology (www.eeb.utoronto.ca) and the Department of Biology (www.utm.utoronto.ca/~w3bio/homepage) at the University of Toronto. This project seeks to understand how repeated transitions between sexual and functionally asexual reproduction in the evening primrose family (Onagraceae) have shaped the evolution of plant transcriptomes, including the diversity and levels of expressed genes, the strength of selection of protein coding regions, the structural evolution of proteins, and the demographic and speciation history of sexual and asexual lineages.

This project is ideally suited for individuals seeking to be productive while doing cutting edge research within a large collaborative group that includes diverse interests and expertise. The successful candidate will be an integral and leading member of a group of researchers from Canada, U.S.A., Germany, Finland, Poland and China, where the collaborators' expertise spans evolution, ecology, chemistry, physiology, cytogenetics and bioinformatics. In collaboration with the One Thousand Plant Initiative we have generated a large Illumina transcriptome dataset of 60 populations that represent over 30 species taken from a well resolved phylogeny of *Oenothera*, where there have been over 15 transitions between sexual and asexual reproduction.

We are interested in all outstanding post-doctoral applicants with an interest and expertise in bioinformatics OR evolutionary genomics. Candidates with expertise in computer programming and bioinformatics of large genomic or transcriptomic datasets are especially encouraged to apply. Applicants are expected to have expertise with one or more of the following skills: genome assembly, gene annotation and alignment of RNA-seq datasets, population and evolutionary genetics, and phylogenetics.

The successful candidate will work collaboratively in the labs of Profs. Marc Johnson (www.evoeco.org) and Stephen Wright (<http://labs.eeb.utoronto.ca/wright>) at the Mississauga and St. George campuses of the University of Toronto.

Toronto is a world class city that is culturally diverse. The city boasts an abundance of restaurants, an excellent transit system, a diversity of cultural activities (theatres, sports, bars, clubs), and an abundance of parks and water.

Starting salary: commensurate with experience

Start date: flexible

Benefits: Ontario Health Insurance Plan

Please send all applications to: marc.johnson@utoronto.ca and stephen.wright@utoronto.ca by March 1, 2012? Applications should include: i) a cover letter, ii) CV, iii) PDFs of top two publications, and iv) contact information for three references.