Post-doctoral position at McMaster University

We are looking for a post-doctoral fellow in genetic epidemiology interested to studying cardiovascular diseases at McMaster University (Hamilton, Canada). The project will involve the analysis of two large, prospective epidemiological cohorts based in Switzerland involving patients with atrial fibrillation (SWISS-AF, www.swissaf.ch) and healthy adults (GAPP). GWAS data is available in both cohorts, with a total sample size of >3500 for AF cases and 2000 for GAPP. Participants in Swiss-AF have been extensively phenotyped including questionnaires, EKG’s and biomarkers. In more than 50% of AF patients we also have yearly cognitive function tests and brain magnetic resonance imaging at baseline and after 2 years. Prospective outcome assessment is ongoing and includes a large number of fatal and nonfatal events. The cohort has a large biobank, including material for additional genetic analysis and availability of Paxgene RNA tubes in more than 50% of patients. In GAPP, in addition to GWAS data we have extensive phenotyping data available (history, EKG, 24-h EKG, 24-h BP, bioimpedance, biomarkers, biobank). Participants are currently undergoing their first follow-up visit approx. 3-4 years after the baseline examination.

The successful candidate will be responsible for:

1) Leading genetic epidemiology projects within these two cohorts.

2) Participating and leading international collaborations in which SWISS-AF and GAPP is part of.

3) Development of innovative genetic epidemiology methods as related to SWISS-AF and GAPP.

Experience in genetic epidemiology and/or statistical genetics is required, while experience in cardiovascular diseases is preferred but not necessary. Clinical fellows are also encourage to apply if they meet the above requirements. The position is for a duration of 1 year and could be extended to up to three years. The candidate will be jointly supervised by Drs. Guillaume Pare and David Conen. Inquiries should be sent to pareq@mcmaster.ca and conend@mcmaster.ca