

Postdoctoral Fellowship in Molecular Chemical Ecology

Swedish University of Agricultural Sciences, Division of Chemical Ecology, Alnarp, Sweden

Application Deadline: August 31, 2017

Start date: September 2017-January 2018

Duration: Period of one year from start date, one year extension is negotiable.

Qualifications

Candidates hold a PhD degree in biology, ecology, entomology or related fields and fluently speak and write English; PhD shall preferably have been obtained within the last 4 years (dissertation date August 2013 or later).

Desired skills: insect antennal electrophysiology, insect behavior and chemical analysis

Experience with antennal electrophysiology is required, preferably with single sensillum recordings (SSR).

Description

We investigate chemical communication between apple, apple-associated microbes, and apple-pest insects.

Main research questions are (i) how different apple pest insects interact with same host fruit (ii) how females and larvae are attracted to host, food and microbe odorants

A transcriptomic and molecular biology approach is used to inform a traditional chemical ecology approach to understanding how apple pest insects interact with their chemosensory environment.

Response profiles of ecologically-relevant candidate olfactory receptors are screened by single sensillum recordings in *Drosophila melanogaster* empty neuron system. Behavioral and field trapping assays will be performed with novel and known chemical stimuli.

Training opportunities shall exist for methods in molecular biology, transcriptomics and *Drosophila* genetics.

Further information by email, william.b.walker.iii@slu.se, or phone +46-40-415228

Application Materials

Send a letter of motivation, CV and contact information for 3 references before August 31, 2017 by email to: william.b.walker.iii@slu.se, or by regular mail: William Walker, Box 102, 23053, Alnarp, Sweden.

Submit applications and further questions to:

Contact Person: William Walker

Mailing Address: Box 102, 23053, Alnarp, Sweden

Telephone: +46-40-415228

E-mail: william.b.walker.iii@slu.se