

Postdoctoral research associate: Coevolution of Insecticide and Parasite Resistance in Cockroaches

Description: A postdoctoral position is available in the Urban Entomology Laboratory (Dr. ME Scharf and Dr. RM Pereira) at the University of Florida Entomology & Nematology Department in Gainesville, FL starting no later than June 2022. The selected candidate will conduct laboratory and transcriptome studies of parasite and pathogen loads in connection with insecticide-resistance in *B. germanica* populations.

Key responsibilities include:

- Conducting insecticide bioassays
- Performing insecticide selections and rearing resistant lines
- Quantitative PCR using a candidate gene approach
- Performing RNA seq experiments
- Analyzing RNA seq datasets using both DE and taxonomic approaches

Minimum qualifications:

- PhD degree in Entomology, Molecular Biology, Parasitology, Genomics/Genetics or related field.
- A good command of statistics and technical writing.
- Publication experience.

Preferred qualifications:

- Experience working with urban pest insects or urban pest management
- Experience with insecticide bioassays and associated safety procedures
- nucleic acid isolation and manipulation
- microbiome analysis (prokaryotic, eukaryotic, viral)
- RNA seq and analysis
- taxonomic analysis of high-throughput sequence datasets

Salary: \$47,500 plus fringe benefits

Start date: June 2022

Duration: Two years

Location: This position is based on the main campus of the University of Florida in Gainesville. Gainesville is a lively college town offering a strong arts and music scene along with plentiful outdoor recreation activities. UF was recently ranked in the top 10 public universities in the U.S., and UF's Department of Entomology and Nematology was rated best in the world in 2017. Field work in the form of day collecting trips may be conducted in or around the Gainesville area.

To apply: Submit a CV and a 1-page cover letter overviewing your interests and qualifications (see above) to Dr. Michael Scharf (mescharf@ufl.edu) with the subject line "Postdoc application: cockroach resistance". Please include names and contact information of 2-3 references familiar with your work. Closing date: March 31, 2022. The University of Florida is an Equal Opportunity Institution dedicated to

building a broadly diverse and inclusive faculty and staff. Hiring is contingent upon eligibility to work in the US.