



CAES

The Connecticut Agricultural Experiment Station

Putting Science to Work for Society since 1875

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POSTDOCTORAL SCIENTIST: GENETICS OF INSECTICIDE RESISTANCE

Department of Entomology

Center for Vector Biology & Zoonotic Diseases

With anticipated approval, the Department of Entomology and Center for Vector Biology & Zoonotic Diseases at the Connecticut Agricultural Experiment Station (New Haven Campus) are seeking applicants for a Postdoctoral Research Scientist position starting February 2023 to study the genetic basis of insecticide resistance in mosquitoes in the northeastern USA. The position is for two years with a negotiable start date, and the salary is \$54,236.00/yr., including competitive medical and dental benefits.

Scope: The research project, funded by the Louis Magnarelli Postdoctoral Fellowship at CAES, will use genomic approaches and experimental evolution to identify the underlying genetics of insecticide resistance in *Culex pipiens* mosquitoes in the Northeast and establish the potential of these mosquito populations to develop and maintain resistance in the presence/absence of insecticides.

Required Qualifications: Candidates must have a Ph.D. in genomics, population genetics, molecular vector biology, evolutionary biology, or a related discipline. Excellent communication (verbal and written) and organizational skills, as well as a track record of research productivity and scholarly publications in peer-reviewed journals, are essential. Strong molecular biology training, experience with maintaining and manipulating arthropod vectors, working knowledge of high-throughput sequencing (e.g., Illumina) and large databases, as well as basic bioinformatic skills are required.

Additional Qualifications: Familiarity with association analysis (GWAS) is preferred. Willingness and ability to carry out field work and insecticide resistance bioassays are a must, as is the ability to work as part of a team of researchers. The applicant should have a valid US driver's license or the ability to obtain a driver's license within two months of employment. Applicants will be expected to supervise undergraduate and graduate students to fulfill the research objectives of this project.

To apply: Interested candidates should submit by email a single PDF document that includes: (1) a cover letter addressing the requirements above, (2) a CV or resume, and (3) the names and contact information for three references (e-mail and phone numbers) to: Dr. Andrea Gloria-Soria (andrea.gloria-soria@ct.gov). The review of applications will begin immediately and continue until a suitable candidate is identified.

About Us: Founded in 1875, the Connecticut Agricultural Experiment Station (CAES) is a state-supported institution dedicated to basic and applied research that supports plant, environmental, and human health in Connecticut. Over eighty full-time researchers work at the main campus in New Haven, a 75-acre research farm in nearby Hamden, and at two satellite farms and laboratory facilities. CAES fosters a highly collaborative and collegial research environment and maintains close ties to nearby academic institutions, including Yale University and the University of Connecticut.

Equal employment opportunity means employment of people without consideration of age, ancestry, color, criminal record (in state employment and licensing), gender identity or expression, genetic information, intellectual disability, learning disability, marital status, mental disability (past or present), national origin, physical disability (including blindness), race, religious creed, retaliation for previously opposed discrimination or coercion, sex (pregnancy or sexual harassment), sexual orientation, veteran status, and workplace hazards to reproductive systems unless the provisions of sec. 46a-80(b) or 46a-81(b) of the Connecticut General Statutes are controlling or there are bona fide occupational qualifications excluding persons in one of the above protected classes. To file a complaint of discrimination, contact Dr. Jason White, Director, The Connecticut Agricultural Experiment Station, 123 Huntington Street, New Haven, CT 06511, (203) 974-8440 (voice), or Jason.White@ct.gov (e-mail). CAES is an affirmative action/equal opportunity provider and employer. Persons with disabilities who require alternate means of communication of program information should contact the Chief of Services, Michael Last at (203) 974-8442 (voice), (203) 974-8502 (FAX), or Michael.Last@ct.gov (e-mail).

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