

Postdoctoral Position in Stress Biology and Epigenetics at Auburn University

The Wada and Schwartz Lab at Auburn University invites applications for an enthusiastic, creative postdoctoral scientist to join a growing research team on an NSF-funded project to test the damage-fitness model. This project integrates molecular measures of cellular damage, protection and repair, and epigenetics using zebra finches. Through integrating biological and engineering modeling approaches, we will develop mechanistic and predictive mathematical models, linking developmental and adult environments, epigenetic modifications, stress-induced molecular and cellular damage, and fitness indices.

Required criteria:

- Candidate must have a track record of addressing scientific problems in an innovative, thoughtful, and systematic manner
- Candidate must possess excellent written and interpersonal communication skills
- Candidate must have a strong publication record in physiology or functional genomics
- Candidate must have a PhD at time of employment and meet eligibility requirements to work in the United States at the time appointment is to begin and continue working legally for the proposed term of the appointment.



The ideal candidate would have a strong background in conducting bioinformatic analyses of large-scale data such as genomics, transcriptomics, or epigenetic analyses and knowledge of molecular techniques for DNA, RNA, or epigenetics with experience working with animals. Whatever their background, they must have a strong interest in stress biology.

The ideal candidate will aim to make a major contribution to our ongoing research programs and develop and carry out their own line of research within the funded project. Selected applicants will also benefit from funds to travel to national meetings annually, opportunities for mentoring and career development. Additional lab funds for independent projects are available upon written proposal submission. The postdoc will be co-mentored by Drs. Wada and Schwartz and expected to produce first authored papers, contribute to co-authored papers, and assist training graduate students. Persons from groups typically under-represented in science are strongly encouraged to apply. Our research groups are family-friendly and value diversity to create an inclusive and equitable environment, along with the efforts by the College of Sciences and Mathematics.

For more information about the labs see:

Wada Lab: <https://www.wadalaboratory.com/>

Schwartz Lab: <http://www.schwartzlab-ecoevolutionarygenomics.org/>

Department of Biological Sciences: <http://www.auburn.edu/cosam/departments/biology/>

Auburn University runs several high-performance computing clusters (<https://hpc.auburn.edu/hpc/index.php>) and we also have access to use the Alabama Supercomputer (<https://www.asc.edu/>). Auburn University is a land-grant institution and is an EEO/Vet/Disability Employer.

This is a full-time, twelve-month, non-tenure track position beginning of 2023 or sooner, for a term of one year with additional years possible depending on performance. Applicants should email the following to Haruka Wada (hzw0024@auburn.edu) and Tonia Schwartz (tss0019@auburn.edu) with header: Stress Biology Postdoc. Review of applications will begin in December 1st until position is filled.

1. Cover Letter,
2. CV with names and contact information of three references, and
3. Statement of research interests including a description of how they fit in the focus of the Wada and Schwartz lab groups.