

Postdoctoral position, systems biology of resilience and aging in *Drosophila*

Promislow lab University of Washington

A postdoctoral position is available immediately (with flexible start date), in the Promislow lab at the University of Washington. We are looking for a postdoctoral researcher to join collaborative effort on the relationship between aging, social behavior and feeding behavior.

Our goal is to understand how age affects social behavior and how these behaviors, in turn, affect aging. Using the fruit fly, *Drosophila melanogaster*, as a powerful model system, we take advantage of new technology developed by our collaborator, Scott Pletcher (U Michigan) to obtain ultra-high-resolution longitudinal behavioral data. Our goal is to develop and implement computational, genetic, behavioral and physiological methods to answer fundamental questions about determinants of behavioral, social, and cognitive aging, and to explore strategies that promote favorable socio-environmental interactions or that ameliorate or block adverse ones.

This project, an NIH-funded collaboration between three labs, will include opportunities to pursue interests in social behavior, aging, systems biology, genetics, and/or high-dimensional statistical models

We are seeking someone with a PhD and expertise in behavior, ecology, evolution, aging, and/or systems biology. The ability to work extremely well in a team is essential.

RESPONSIBILITIES:

The Postdoctoral Researcher will:

- Design and carry out fly experiments under the supervision of Dr. Promislow
- Coordinate the metabolomic data generation and analysis.
- Work with a statistical collaborator on analysis of high-dimensional longitudinal behavioral data.
- Write up and publish results.
- Contribute to regular lab meetings and one-on-one discussions about project design and progress.

REQUIREMENTS:

PhD in ecology, evolution, behavior, genomics, computational biology, systems biology, or a related field.

Other required qualifications include:

- Skilled in the use of the R or Python statistical environment
- Strong organizational skills.
- Ability to learn and integrate new analysis methods.
- Excellent oral and written communication skills.
- Ability and enthusiasm for working independently, and also collaboratively as part of a team

DESIRED:

- Understanding of the statistical approaches and nuances of high-dimensional data analysis
- Familiarity with metabolomic profiling
- Practical understanding of the biology of aging.
- Excellent mentoring skills and desire to work with undergraduates

Interested candidates should send an email with CV, a brief statement of research experience and interests, and names of three referees to Daniel Promislow at promislo@uw.edu no later than Oct 1, 2022.

The Promislow Lab is committed to creating a diverse, respectful environment where people of all backgrounds are welcome and can thrive.

The University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, gender expression, national origin, age, protected veteran or disabled status, or genetic information.