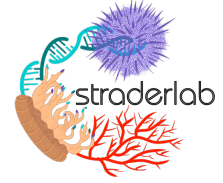


Purple urchin immunology postdoc

Location: Texas A&M University, College Station TX

Start Date: Flexible, but can begin as soon as Aug 2022



Details: The initial appointment would be one year, however the project has funding for two years assuming adequate progress. Starting salary is \$50,000 USD with associated merit-based raises each year. College Station, TX, is an affordable college town. Average rent prices for a 2 bedroom are ~\$1K.

Background: The [Strader Lab](#) (Texas A&M University) studies how environmental change impacts marine invertebrates from the level of the epigenomic landscape to an evolutionary ecology viewpoint. The [Buckley Lab](#) (Auburn University) studies immune system evolution from the perspective of echinoderms to uncover fundamental aspects of animal immune response and investigate the origins of vertebrate adaptive immunity. Together, these two labs recently embarked on an NSF-funded, interdisciplinary project to identify linkages between environmentally-induced epigenetic changes and immune response phenotypes. This research employs the larval stage of the purple sea urchin (*Strongylocentrotus purpuratus*), an experimentally tractable model system with extensive genomic resources that plays a key role in the marine ecology.

We are currently recruiting a **Postdoctoral Researcher** to work primarily in the Strader lab in close collaboration with the Buckley Lab. The proposed research integrates aspects of global change biology, whole genome multi-omics analyses (e.g., DNA methylation, transcriptomics, Chip-Seq), ecological immunology, experimental marine biology and functional genetics. We expect candidates to have strengths in any one of those subfields and interests in developing skills in any of the others.

Ideal candidates will have:

- A Ph.D. in biology, bioinformatics, or related field and publication record appropriate for career level
- Experience with analyzing and interpreting high throughput sequencing data in non-model systems with a preference for knowledge of marine invertebrate genomics
- Experience profiling microbial community compositions using sequencing data
- Strong skills in bioinformatics and data management
- Strong background in biostatistics, particularly genomic and ecological data
- Excellent written and oral communication skills
- Interest in understanding epigenetics mechanisms regulating gene expression in non-model invertebrates
- Experience mentoring and managing diverse groups of students of various levels
- Dedication to outreach and science communication, especially in promoting BIPOC in STEM.

The Strader lab is committed to fostering a supportive and inclusive environment for EVERYONE. This entails personalized mentorship approaches, and regular discussion of literature associated with diversity, equity, and inclusion in STEM. We strive to promote the voices of historically underrepresented groups in ecology and evolution.

This position is fully-funded through the National Science Foundation. We would like candidates to address their approach to mentoring and promoting diversity in STEM in their cover letter. To apply or for additional enquiries, please email a cover letter, contact for three references, and CV to Drs. Strader and Buckley (stradermarie@gmail.com; kmb0163@auburn.edu). Position will remain open until filled.