

The American Society of Pharmacognosy

<https://www.pharmacognosy.us/job/post-doctoral-researcher-the-university-of-oklahoma/>

Post-Doctoral Researcher – The University of Oklahoma

Description

The laboratories of Ashlee Rowe and Luca Fornelli at the University of Oklahoma seek a highly motivated postdoctoral research fellow to conduct liquid chromatography (HPLC) isolation and purification of polypeptides from scorpion venoms for drug discovery. This position offers the possibility of joining a multidisciplinary team using a structural biology approach and state-of-the-art instrumentation to address cutting edge questions in Neurophysiology. The postdoc will primarily use liquid chromatography (reversed phase, ion exchange) techniques to isolate and purify polypeptides from scorpion venoms for downstream proteomic analyses. In addition, the postdoc will use protein production techniques to express venom proteins. The goal of the project is to isolate and characterize venom peptides that inhibit pain pathway ion channels as a platform for drug discovery. The project, supported by an NIH grant to the Oklahoma Center of Biomedical Research Excellence in Structural Biology, provides opportunities to collaborate with molecular biologists and neurophysiologists in the Department of Biology and the Health Science Center, as well as structural and proteomics biologists in the Department of Chemistry and Biochemistry. This project provides an outstanding opportunity for a motivated postdoctoral researcher to integrate venom peptide pharmacology with sensory neurophysiology to develop novel pain therapeutics. For more information on the Oklahoma Center of Biomedical Research Excellence in Structural Biology, please use the following link: <http://www.ou.edu/structuralbiology>. One year of funding is available with a start date of June 15, 2021 (start date is flexible). Please submit a CV, Letter of Interest with potential start dates, and contact information for three professional references. Additionally, up to three representative publications may be sent as separate pdf files. Candidates from underrepresented STEM groups are encouraged to apply.

Responsibilities

The postdoc will primarily use liquid chromatography (reversed phase, ion exchange) techniques to isolate and purify polypeptides from scorpion venoms for downstream proteomic analyses. In addition, the postdoc will use protein production techniques to express venom proteins. Skills: The ideal candidate will have expertise in high performance liquid chromatography. Knowledge of proteomics, protein production, and/or molecular techniques is a plus. Experience with venom peptides a plus. Applicant should be a team player with good communication skills and the ability to assist with training graduate/undergraduate students.

Qualifications

Applicants should have a PhD in Chemistry, Biochemistry or a related field like Biomedical Engineering, Neuroscience or Physiology by the time of employment.

Contacts

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Hiring organization

The American Society of Pharmacognosy

Job Location

Norman, Oklahoma

Date posted

June 1, 2021

Valid through

07/31/2021