

POSTDOCTORAL SCIENTIST POSITION IN AMPHIBIAN INNATE IMMUNITY

the Grayfer Lab

Department of Biological Sciences, George Washington University, Washington, DC, USA

<https://www.grayferlab.org>

Position Summary: A National Science Foundation-funded postdoctoral position is available in the laboratory of Dr. Leon Grayfer at the Department of Biological Sciences, George Washington University, Washington DC. The Grayfer lab employs the African clawed frog (*Xenopus laevis*) as a surrogate model of innate immune cell development, functional differentiation and antimicrobial defenses. The successful applicant will participate in studies aimed at defining the consequences of distinct frog macrophage differentiation pathways on the antiviral capacities of these cells. Applicants with a doctoral degree (at the start of position) and experience in molecular biology and/or immunology are encouraged to apply. The successful applicant should be highly motivated, possess excellent communication and writing skills, and have a record of high quality publications.

The successful candidate will have the opportunity to master and utilize modern techniques such as cell, tissue and pathogen culture, gene expression analyses, gene editing, recombinant protein production and antimicrobial assays to investigate frog innate immune cell development and functionality. The successful candidate will join a highly collaborative research group that includes researchers at all educational levels working together towards common research goals.

Environment: The Department of Biological Sciences at the George Washington University is an excellent research environment, comprised of faculty studying an array of disciplines including comparative immunology, developmental and cell biology, genetics, neurobiology, microbiology, systematics and bioinformatics. GWU possesses state-of-the-art facilities for cell and molecular biology in the new Science and Engineering Hall, including a genomics core, a microscopy suite, a flow cytometry facility, a histology core and aquatics suites. Major scientific organizations (National Science Foundation, National Institutes of Health, Howard Hughes Medical Institute at Janelia Farms) are located in the vicinity of the GWU Foggy Bottom campus. The interdisciplinary and collaborative research communities within the Department of Biological Sciences, on the GWU campus and across neighboring institutions are an ideal environment for pursuing research or research-related careers. Moreover, Washington, DC offers a very high quality of life, with easy access to the Smithsonian Institution, the National Zoo and USDA laboratories.

To Apply: <https://www.gwu.jobs/postings/68476>. You may also contact Dr. Leon Grayfer by e-mail (leon_grayfer@gwu.edu) and include your *curriculum vitae*, a brief description of your prior research experience and contact information of three potential references.

