

# THE GEORGE WASHINGTON UNIVERSITY

WASHINGTON, DC

## DEPARTMENT OF BIOLOGICAL SCIENCES

Laboratory of Insect Infection and Immunity – Ioannis Eleftherianos

<http://www.eleftherianoslab.org>

### **NIH-Funded Ph.D. Position in *Drosophila* Immunity**

**Position Summary:** This NIH fully funded Ph.D. position is readily available for a suitable candidate to investigate the molecular and functional basis of the *Drosophila* immune response against nematode parasites and their mutualistic bacteria.



**Profile of candidates:** The position is suitable for highly motivated students with B.S. or M.S. degrees in Biology or related field, who are interested in integrative biology, preferably with some experience in one or more of the following areas: molecular biology, genetics, immunology, comparative or invertebrate biology, microbiology or parasitology. The research requires a multidisciplinary approach with the use of molecular, cellular and immunological techniques. The student will have daily opportunities to interact with other members (faculty, postdocs, grad students and undergraduates) in the lab, in addition to members of the laboratory of other immunology labs in the Department. Excellent knowledge (speaking and writing) of scientific English is required.



**Graduate Environment:** The Department of Biological Sciences at the George Washington University is an excellent graduate student research and teaching environment, comprised of faculty studying a gamut of disciplines including comparative immunology, neurobiology, development, cell biology, genetics, bioinformatics, cell biology and many others. The Department is ideally equipped for work with comparative animal models and GWU has state-of-the-art facilities for cell and molecular biology in the new Science and Engineering Hall including high throughput sequencing, a genomics core, a microscopy suite, a flow cytometry facility, and an aquatics suite. Major scientific organizations (National Science Foundation, National Institutes of Health, Howard Hughes Medical Institute at Janelia Farm) in addition to other Academic Institutions (Georgetown Univ, Univ of Maryland, American Univ, Howard Univ, George Mason Univ, etc) are located in the vicinity of the GWU Foggy Bottom campus. The interdisciplinary and collaborative research community within the Department of Biological Sciences, on the GWU campus and across neighboring institutions is an ideal environment for training graduate students interested in 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. Members of the Department of Biological Sciences are involved in several special graduate programs that take advantage of collaborations with other researchers, faculty, and facilities at GW and elsewhere in the Washington area.

**To Apply:** Interested candidates are invited to submit their application, including a cover letter stating goals, a full *Curriculum Vita*, a brief description of their prior research experience, together with the names and addresses of at least two references to Ioannis Eleftherianos: [ioannise@gwu.edu](mailto:ioannise@gwu.edu)

#### **Relevant Publications:**

1. Castillo JC, Creasy T, Kumari P, Shetty A, Shokal U, Tallon LJ, Eleftherianos I. (2015). *Drosophila* anti-nematode and antibacterial immune regulators revealed by RNA-Seq. *BMC Genomics* 16, 519.
2. Castillo JC, Shokal U, Eleftherianos I. (2012). A novel method for infecting *Drosophila* adult flies with insect pathogenic nematodes. *Virulence* 3 (3).
3. Castillo JC, Reynolds SE, Eleftherianos I. (2011). Insect immune responses to nematode parasites. *Trends in Parasitology* 27, 537-547.
4. Eleftherianos I, French-Constant RH, Clarke DJ, Dowling AJ, Reynolds SE. (2010). Dissecting the immune response to the entomopathogen *Photorhabdus*. *Trends in Microbiology* 18, 552-560.

*The George Washington University is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.*