

Postdoctoral Position: Evolution of host-pathogen interactions

University of Pittsburgh Department of Biological Sciences

An NIH-funded postdoctoral position is available in Jon Boyle's group at the University of Pittsburgh to study host-pathogen interactions. Position is open immediately and until filled, and start date is negotiable.

Toxoplasma is a globally ubiquitous parasite of humans and nearly all warm-blooded animals, and causes severe disease in HIV/AIDS patients and the developing fetus. Work in our lab seeks to understand, on a molecular level, how *Toxoplasma* manipulates the host cell to promote its survival. We use diverse techniques, ranging from large-scale 'omics screens to inter- and intra-species genetic complementation experiments. Phenotypes are assessed both in tissue culture and in laboratory animals. Find more information about our lab and publications at <http://boylelabresearch.com>.

Ongoing projects include:

1. Using comparative and functional genomics approaches understand how key virulence phenotypes uniquely evolved in *Toxoplasma gondii*.
2. Understanding how gene duplication and diversification drives the evolution of unique phenotypes in *Toxoplasma gondii*.
3. Using cell biological approaches to understand how *Toxoplasma* interacts with the human placenta

We provide extensive training and perform research using human primary cell culture, bioinformatics, molecular genetics/cloning, QTL mapping, analysis of innate immune responses, and next-generation sequencing and relevant downstream analysis tools.

The University of Pittsburgh is situated in an exciting city. The Department of Biology has top-notch research facilities, and the University consistently ranks in the top 10 nationally for biomedical research funding. In addition to our interactions with faculty in the Biological Sciences department, our lab has collaborators in the Pittsburgh School of Medicine and at Carnegie Mellon University.

Pittsburgh is also a great place to live. For more information about living in Pittsburgh, see: <http://www.coolpgh.pitt.edu/>

Interested applicants should send the following information in a single PDF file to the address below:

1. A curriculum vitae
2. The names and addresses of three references
3. A one-page statement of research accomplishments and interests

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