

## Postdoctoral Research Associate Positions

New opportunities to join a highly productive laboratory focused on developing new approaches for studying host-pathogen interactions at the molecular level. The human pathogen *Toxoplasma gondii* enjoys excellent forward and reverse genetic tools as well as animal models, making it an attractive model for studying host-pathogen interactions. Projects offer potential for independent career advancement and are supported by excellent core facilities for animal studies, biological imaging, genomics, and immunological profiling.

Project 1: Develop small animal models for chronic infection with *Toxoplasma gondii* as a platform to explore genetic determinants of pathogenesis and regulation of host immunity (*Ann. Rev. Micro.* 2016, 70: 63-81). Prior experience with immunology, microbiology, and molecular biology are highly desirable.

Project 2: Utilize biochemical analysis of protein complexes and reverse genetic strategies to define the molecular basis of a novel parasite effector that blocks interferon signaling in human cells (*Cell Host Microbe* 2016, 20: 72-82). Prior experience with molecular genetics, biochemical analysis of protein interactions, and analysis of genome-wide datasets are highly desirable.

Project 3: Discover new pathogenesis determinants by combining CRISPR/Cas9 mediated screening with reverse genetics to define the molecular basis of pathogenesis (*Methods Molec. Biol.* 2017: 1498, 79-103). Prior experience with molecular genetics, comparative genomics, and analysis of genome-wide datasets are highly desirable.

Recent Ph.D. in Microbiology, Immunology, or Molecular Biology. Good command of the English language (speaking and writing), analytical, and computational skills are considered essential. Washington University offers a highly diverse intellectual community with outstanding training opportunities for postdoctoral fellows. Salary and benefits along with educational and training opportunities are summarized at the Office of Post Graduate Affairs (<http://dbbs.wustl.edu/PostDocs/Pages/PostDocs.aspx> ).

Submit a current C.V. and names of three references to: Dr. David Sibley, Professor, ([sibley@wustl.edu](mailto:sibley@wustl.edu)), Dept. Molecular Microbiology, Washington University Sch. Med., St. Louis, MO 63110.

