



**Postdoctoral position on neuroimmune interactions in
chronic migraine and post-traumatic headache**



A postdoctoral position is available in the laboratory of Dr. Yu-Qing Cao at the Department of Anesthesiology and Pain Center of Washington University in St. Louis.

The focus of basic research in Cao lab is to understand how neuro-immune interactions contribute to the establishment and resolution of chronic migraine and post-traumatic headache as well as comorbidities such as cognitive dysfunction, depression and anxiety. In translational study, we focus on developing drugs that target regulatory T cells as novel, peripherally-active therapy for recurring headaches and co-occurring cognitive impairment.

The laboratory integrates a complementary set of tools including patch-clamp electrophysiology, time-lapse imaging, molecular genetics, neuroanatomy, bulk and single-cell RNA sequencing, immunology, pharmacology as well as mouse behavioral assessment of pain and cognitive functions. We are part of a diverse and highly collaborative community of pain researchers using state-of-the-art tools in basic and translational pain research. More information can be found at: <https://sites.wustl.edu/dbrcalab/>

An ideal candidate will have strong conceptual and practical experience in immunology, with expertise in standard techniques (flow cytometry and cell sorting, Elispot, T cell enrichment, culture, transduction, and adoptive transfer, generation and analysis of transcriptomic data, etc.). Successful candidates must exhibit motivation and scientific rigor to originate, carry out, and publish significant original research work. Strong interpersonal and communicative skills are indispensable. Proficiency in spoken and written English are required.

Washington University is a world-renowned research institution with a wealth of resources for conducting cutting-edge basic and translational research, with ample opportunities for interdisciplinary collaboration. The Department of Anesthesiology and Pain Center are committed to alleviating human suffering from pain and aim to be the foremost center in the nation for the advancement of pain science. The lab and the institution are fully committed to candidate's career development and path to independence.

St. Louis is an extremely livable city with a low cost of living. The large metropolitan area has a diverse array of entertainment options including outdoor activities, dining, shopping, and an extremely active professional sports scene. The medical school and undergrad campuses sit on opposite ends of the 2nd largest municipal park in the country (Forest Park; 1,400 acres).

The position is fully funded by NIH and DOD grants for 3-5 years. Salary will be commensurate with qualifications, laboratory experience, and institutional guidelines. If interested, please submit CV, a brief description of scientific interests and career goals, along with contact information for three references to:

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