

Immunoregulation in neuroinflammation and neurodegenerative diseases

Position Description:

A postdoctoral position is available in the laboratory of Dr. Han-Yu Shih at the National Institutes of Health (NIH) in Bethesda, MD. Shih lab aims to understand the mechanisms that precisely regulate gene expression in lymphoid cells through multidisciplinary genomic approaches, including but not limited to scRNA-seq, scATAC-seq, ChIP-seq and Hi-C. Lymphoid cells communicate the perturbation of homeostasis by production of cytokines, dysregulation of which results in neural and ocular inflammation in infectious, autoimmune and neurodegenerative diseases. The candidates will investigate immunoregulation of neuroinflammation using “omic” approaches, with the ultimate goal for identifying potential therapeutic targets.

This position offers exposure to multidisciplinary and cutting-edge genomic research and opportunities to collaborate closely with experts in immunology, neurobiology, and bioinformatics. The candidates will be leading/co-leading projects, designing experiments for generating high-dimensional data while working closely with collaborators and lab members. The candidate will be supported with an excellent intramural NIH fellowship in a stimulating and interactive research environment at NIH. Opportunities for training in bioinformatics as well as mentoring postbacs or summer students will be available based on interest. Salary is commensurate with research experience and accomplishments.

Qualifications:

- Candidates must hold a Ph.D. or M.D./Ph.D. in immunology, neuroscience, genetics, molecular biology, biochemistry or a related field, within three years of degree being awarded;
- Must have first authorship on at least one peer-reviewed publication;
- Must be self-motivated and keen to develop and/or learn cutting-edge technologies and/or up-to-date genomic data analysis;
- The ability to work as part of a cohesive group is important as we are a highly collaborative lab;
- Have excellent writing and communication skills.

To Apply:

Interested candidates please send a cover letter, curriculum vitae, and contact information of three references to: NEI Shih Lab nei-shih-lab@nih.gov

Lab website:

<https://www.nei.nih.gov/research/research-labs-and-branches/neuro-immune-regulome-unit>