



Attn: Recruiting one postdoctoral fellow in the Shen lab

Date: Sept 20, 2021

The Shen laboratory at [Cellular & Molecular Physiology](#) at Yale School of Medicine and [Systems Biology Institute](#) at Yale West Campus is recruiting a postdoctoral fellow to join the vibrant and multidisciplinary team to study cellular metabolism impacting neurotransmission in the nervous system. The exceptional candidate will be entitled with a prestigious Yale Rudolph J. Anderson Endowed Postdoctoral Fellow. The Shen lab uses multidisciplinary approaches ranging from biochemistry, cell biology, genetics and metabolomics to study cellular metabolism underlying human health and diseases.

The candidate should have (or expect to have) a Ph.D. or equivalent degree in the biology-related discipline. Experience in primary neuronal cell biology, biochemistry, electrophysiology and optical microscopy (TIRF and confocal) and knowledge in synaptic physiology are preferred but not required. The candidate will be working closely with analytic chemist and cell biologist at the interface between metabolism and neuroscience, and together explore the fundamentals in synaptic metabolic biochemistry of the nervous system implicated in neurodevelopmental, psychiatric and neurodegenerative disorders. The candidate will have the opportunities to get exposure to modern technology in cellular metabolism, including CRISPR genome editing (CRISPR screen), cellular bioenergetics and mass spec-based metabolomics. **The ideal candidate will be a solid cellular and molecular neuroscientist with an interest to venture into metabolism.**

Dr. Shen completed her graduate work with Dr. Pietro De Camilli (Yale), where she studied membrane curvature formation and lipid metabolism during endocytic trafficking. Upon completing her postdoctoral training with Dr. Vamsi Mootha (MGH and Harvard) to study mitochondrial metabolism supporting cellular and organismal physiology using integrated metabolomics and CRISPR screen approaches, Dr. Shen joined Yale as an assistant professor in Jan 2020. Dr. Shen was awarded with NIH Pathway to Independence Award (K99/R00) (2017-23), Lois E. and Franklin H. Top, Jr., Yale Scholar Award (2021) and Klingenstein-Simons Fellowship Award in Neurosciences (2021).

To learn more about the lab, please visit the lab website:

https://medicine.yale.edu/profile/hongying_shen/hoysHENlab.org

Interested applicants should send a cover letter describing previous research experience, CV/resume and contacts of three references to Hoy Shen at hongying.shen@yale.edu

Yale University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women, members of minority groups, persons with disabilities and protected veterans.