

**Post-doctoral fellow position in Neuroscience**  
**Banerjee Lab, Cold Spring Harbor Laboratory, NY.**

A position for a highly motivated postdoc is available in the Banerjee Lab at Cold Spring Harbor Laboratory, NY, for a start date of January 2021.



Our lab is interested in how the brain accomplishes the ongoing transformation from sensation to action during natural behaviors. Vocal communication is ideally suited to study natural and flexible sensorimotor transformations. During a conversation, our brain must interpret what we hear and control our vocal response. How does the brain transform these auditory sensations into action? Recently, we have discovered that a neo-tropical rodent, Alston's singing mouse, engages in fast vocal interactions, even under laboratory settings. Our lab, using this novel model system, seeks to pursue two complementary questions. First, how does the auditory system interact with the motor system to generate the sensorimotor loop required for vocal communication? Second, what are the neural circuit modifications that allow behavioral novelty to emerge during evolution? Various rodent species exhibit marked differences in vocal

behaviors. Genes that determine such behavioral differences, for example between the singing mouse and the lab mouse, must act via neural circuits within the brain. Yet, the structural and functional changes in the brain that specify the distinct vocal repertoires across related species remain unknown. Research in the lab combines cutting-edge systems neuroscience and comparative evolutionary analyses of neural circuitry across rodent species to bridge this knowledge-gap.

*Position Requirements:*

Candidates must hold a PhD degree (or equivalent) in neuroscience, biomedical engineering or a related field. The ideal candidate should be passionate about behavior, neural circuits and evolution. Expertise or previous experience in systems neuroscience (especially behavioral measurements and in-vivo physiology) is desirable but not essential. Interested candidates should e-mail their application to [abanerjee@cshl.edu](mailto:abanerjee@cshl.edu). The application file should include: (1) CV with the publication list, (2) a brief description of research interests, (3) contact information for three references.

Cold Spring Harbor Laboratory is a world-renowned research and educational institution recognized internationally for its excellence in fundamental areas, such as cancer, neuroscience, plant biology, genomics, and quantitative biology. The Laboratory has long been recognized as a place for nurturing young scientists, with postdoctoral researchers being an integral part of the discovery process. The Laboratory offers a warm, collegial, and collaborative work environment as well as a competitive salary and benefits in a beautiful location about one hour from New York City.

We offer a competitive salary and comprehensive benefits program, including medical and dental insurance, and access to an affordable and licensed on-site childcare center. In addition, CSHL Meetings and Courses program provides an opportunity for interacting with a broad range of researchers and exposure to timely advances in many areas of scientific research.

Website: <https://www.cshl.edu/research/faculty-staff/arkarup-banerjee/#research-profile>