



Postdoctoral Fellow Career Opportunities

[Postdoctoral Fellow – Borniger Lab – 03038-R](#)

The Borniger Laboratory at CSHL is seeking a highly motivated, creative, and interactive postdoctoral researcher with strong experimental and analytical skills to contribute to research on the neural circuitry controlling systemic energy metabolism in the steady state and during cancer progression. The Borniger Laboratory uses techniques from systems neuroscience, immunology, endocrinology, and cancer biology to disentangle communication pathways between cancer and the nervous system.

[Postdoctoral Fellow – Cheadle Lab – 02749-R](#)

The Cheadle Lab at Cold Spring Harbor Laboratory is inviting applications from highly motivated candidates for a postdoctoral position investigating interactions between neurons and immune cells (microglia) in the developing brain. We employ a unique multidisciplinary strategy to study these interactions that merges two-photon imaging in the brains of live awake mice, single-cell or low input genomics, and standard molecular and cell biological approaches.

[Computational Post Doc – Dobin Lab – 02145-R](#)

Join a team of biological data scientists working on novel statistical methods and computational algorithms for multi-omics processing and integration, and leverage Big Genomic Data to elucidate various problems in precision health, such as genetic and epigenetic mechanisms of cancer development and progression, and the clinical impact of functional variants.

[Computational Post Doc – Engel Lab – 02973-R](#)

We are looking for theoretical/computational scientists to work at the exciting interface of systems neuroscience, machine learning, and statistical physics, in close collaboration with experimentalists. The postdoctoral scientist is expected to exhibit resourcefulness and independence, developing computational models of large-scale neural activity recordings with the goal to elucidate neural circuit mechanisms underlying cognitive functions.

[Postdoctoral Fellow – Furukawa Lab – 03088-R](#)

The Furukawa lab has NIH-funded postdoctoral fellow/associate positions available for scientists interested in solving questions in neurobiology and neuro-cancer-immunology by implementing a dynamic range of techniques including structural biology (cryo-EM, x-ray crystallography, molecular dynamics) together with electrophysiology (patch-clamp, slice physiology, lipid bilayer), protein engineering, chemical biology, mouse model, cellular imaging, and cancer mouse model. underlying cognitive functions.

[Postdoctoral Fellow – Janowitz Lab – 02988-R](#)

The Janowitz Laboratory at CSHL is seeking a highly motivated, creative, and interactive postdoctoral researcher with strong experimental and analytical skills to contribute to research on the connectivity of the host response to cancer. We employ pre-clinical and clinical research to develop and test new treatment strategies and to discover fundamental biological interactions between tumors and host organ systems.

[Computational Postdoctoral Fellow - Kinney Lab – Kinney Lab – 03100-R](#)

Associate Professor Justin Kinney seeks a postdoctoral fellow to spearhead a collaboration with Professor Bryce Nickels (Rutgers University), the aim of which is to decipher the sequence determinants of RNA polymerase (RNAP) dynamics during various phases of transcription in *E. coli*. The primary goal of this collaboration is to synthesize data from massively parallel reporter assays and massively parallel cross-linking assays into a comprehensive biophysical model that can quantitatively predict RNAP behavior on arbitrary DNA templates. This will involve a combination of thermodynamic/kinetic model inference as well as the use of modern “black box” deep learning strategies.

[Postdoctoral Fellow - Kinney & Krainer Labs – Kinney Lab – 03066-R](#)

Justin B. Kinney and **Adrian R. Krainer** seek a postdoctoral fellow to spearhead a project focused on **quantitative signal integration in alternative mRNA splicing**. This position is part of an ongoing collaboration between the **Kinney Lab** and **Krainer Lab**, the goal of which is to understand the readout of pre-mRNA sequence by snRNPs and RBPs, as well as the effects of splice-modifying drugs. The successful candidate will be expected to help design their project's aims and to lead the necessary experimental work.

Computational Post Doc – McCandlish Lab – 02798-R & 02802-R

The successful candidate will develop new statistical and mathematical techniques for modeling the effects of mutations and will conduct analyses on a variety of data sets. Current research directions involve semi-parametric statistics, Markov chains, Gaussian processes, and population-genetic theory.

Joint Postdoctoral Fellow – Meyer Lab & Navlakha Lab – 02556-R

The Meyer and Navlakha labs in the Simons Center for Quantitative Biology at Cold Spring Harbor Laboratory are looking for a post-doctoral fellow interested in combining computational and experimental approaches to study tolerance induction and generation of diversity in the immune system. Computationally, the position will require experience in machine learning and statistics. Experimentally, the position will require experience in *in vitro* imaging combined with cell tracking experiments and tissue culture.

Computational Post Doc – Navlakha Lab – 02441-R

We are looking for post-docs broadly interested in studying biological information processing from an algorithmic perspective. The goal is to discover new ideas for computation by studying problem-solving strategies used in nature, and to ground these ideas by fostering deep collaborations with experimental biologists. Most recently, we have been interested in neural circuit computation and plant architecture optimization, but new areas are also welcome!

Postdoctoral Fellow – Van Aelst Lab – 02796-R

The main focus of research will be to study the roles of genes associated with human diseases in the development and function of neural circuits, using molecular, genetic and viral engineering, optogenetics, imaging, electrophysiology, and behavior analysis.

Postdoctoral Fellow – Schorn Lab - 03023-R

We are interested in how small RNAs identify and silence transposable elements when they become active during mammalian development and disease. This is an exciting new field with many opportunities! We believe tRFs are an ancient link between RNAi, transposons and genome stability.

Postdoctoral Fellow – Spector Lab - 03104-R

A postdoctoral position is available, in the laboratory of Dr. David L. Spector at Cold Spring Harbor Laboratory, for a highly motivated outstanding individual to study **long non-coding RNAs (lncRNAs) in breast cancer progression using patient-derived organoids as a model system**. lncRNAs are an exciting class of thousands of RNAs among which very few have thus far been functionally characterized. We recently performed an RNA-seq screen in patient-derived breast tumor organoids and identified lncRNAs over-expressed in tumor organoids vs normal. The proposed studies will interrogate the functional role of specific lncRNAs in breast cancer initiation, progression, and metastasis, as well as their potential as therapeutic targets. Experience in breast cancer, molecular biology, extensive genomic analysis, organoids, and mouse models is a plus.

Postdoctoral Fellow – Yeh Lab - 02869-R

The Yeh Laboratory at CSHL Cancer Center (<http://yehlab.labsites.cshl.edu>) is seeking for a qualified postdoctoral fellow passionate about biotherapeutics discovery and engineering. The Yeh Lab is a highly-collaborative environment with state-of-the-art facilities and expertise in biotherapeutics engineering and chemical biology.

To learn more about these positions and others available at CSHL follow us on Twitter @CSHLCareers or to apply, please visit us at <https://www.cshl.edu/about-us/careers/postdoc-positions/>

CSHL offers 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.

CSHL is an EO/AA Employer. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or protected veteran status.