

## **Staff Scientist I – Stem Cell Biology**

### **A little about us:**

The Lieber Institute for Brain Development (LIBD) was conceived from the realization that a new approach is needed to fully exploit the unprecedented opportunities to accomplish the critical goal of helping affected individuals and their families. The LIBD aims to transform the research landscape in two ways: by providing new tools for scientific discovery and by developing new collaborative approaches to achieve our ambitious mission.

The mission of the Lieber Institute for Brain Development is to translate the understanding of basic genetic and molecular mechanisms of schizophrenia and related developmental brain disorders into clinical advances that change the lives of affected individuals. We are an independent 501(c)(3) medical research institute located in the Bioscience Park on the campus of the Johns Hopkins School of Medicine and Hospital.

### **Job Summary:**

The Lieber Institute for Brain Development has an exciting opportunity for a Staff Scientist I to join the Stem Cell group to help provide institutional related core services on the Johns Hopkins East Baltimore campus.

The primary focus of this position is to use cellular and molecular models to determine the function of genes associated with psychiatric disorders. This will be done using induced pluripotent stem cell (iPSC) technology to reprogram patient fibroblast cell lines into stem cells followed by differentiation into neural progenitor cells and neurons for downstream molecular, biochemical, cellular and electrophysiological analysis. The ideal candidate will work closely with other investigators to help design, develop, and implement projects as well as working with the stem cell team. Depending on abilities and motivation, there are additional opportunities for primary responsibilities for a specific project.

### **Overview of Duties:**

- Work closely with the investigator, post docs, and students in coordinating research studies and provide insight into project design
- Develop and design new differentiation protocols and/or techniques that will expand the capabilities of the stem cell core
- Routinely conduct assays using advance molecular, cell, and biochemistry techniques such as cloning, viral production, quantitative PCR, DNA and RNA isolation, single cell RNA-sequencing, advance stem cell culture, protein purification and isolation, CRISPR gene editing, and western blot
- Differentiate human induced pluripotent stem cells into neurons, glial cells, and other cell types
- Organize and maintain laboratory notebook, reagents, and stocks
- Routinely reprogram fibroblast into induced pluripotent stem cells and maintain stem cells in culture
- Maintain accurate and detailed study records

**Professional and Education Requirements:**

- Bachelor's degree in cell biology, molecular biology or genetics with at least 10 years of lab experience in a molecular or cell biology laboratory is required
- Master's degree in neuroscience, cell biology, molecular biology, or genetics plus a minimum of three years related experience is preferred
- Experience with cell culture, molecular cloning, immunohistochemistry, cloning, CRISPR gene editing are desired. Experience with single cell sequencing, Chip-seq, cortical neuron differentiation techniques preferred
- Experience with stem cell culture required
- Excellent interpersonal skills
- Excellent project management, organizational, problem solving, and analytical skills required
- Ability to work in a professional manner as both a self-starter and a team member
- Excellent written and oral communication skills
- Strong enthusiasm for science.

**To Apply:**

Interested applicants should submit their curriculum vitae to: [jobs@libd.org](mailto:jobs@libd.org) with the subject line "Staff Scientist – Stem Cell Biology".

**EEOC Statement:**

The Lieber Institute for Brain Development is proudly an equal employment opportunity and equal professional advancement employer. Employment decisions at the Lieber Institute for Brain Development are based on merit, qualifications, and abilities. It is our policy that the Lieber Institute does not discriminate in employment opportunities on the basis of race, religion, color, sex, age, marital status, national origin or ancestry, citizenship, physical or mental disability, sexual preference/orientation or veteran status with regard to any position or employment for which the applicant or employee is qualified.

Job Type: Full-time