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07-May-2020

Assay Development Researcher

Faculty of Arts and Sciences
52033BR

Job Code

RS0157 Researcher III Natural Science

Job Summary

Reporting to Professor Lee Rubin, Dept of Stem Cell and Regenerative Biology and the Harvard Stem Cell Institute, the candidate will collaborate with a team of researchers (postdoctoral fellows and research assistants) in the Rubin lab and in other labs at Harvard working on therapeutics projects, ranging from neurodegenerative and neuromuscular disorders to diabetes to cardiovascular disease. Most of the projects make use of pluripotent cells or tissue-specific stem cells. The group designs, develops, and performs assays to identify drugs, drug targets, and disease-associated signaling pathways.

Job-Specific Responsibilities

More specifically, the Researcher will:

- With the PI, plan overall research goals, set timelines for multiple projects, and independently execute research plans with lab personnel.
- Design with individuals or research teams, assays that optimally reflect relevant cellular behaviors. Screen chemical and other types of libraries to identify screening “hits” or therapeutic relevance. Translate screening hits into mechanistic insights and experimental hypotheses. Evaluate and summarize results in line with research goals.
- Guide cell production, modify and/or develop new protocols, procedures, techniques or applications of technology; integrate new findings in the field.
- Transfer benchtop assays to robotic screening platforms, perform assays, and evaluate screening data in collaboration with the research team members.
- Supervise a research assistant responsible for cell culture, automated immunohistochemical staining, robotic liquid handling platforms, and chemical inventory.
- Contribute to writing research proposals and progress reports for multiple funding agencies and manuscripts/publications and/or presentations of research results. Summarize and present research results at internal and collaborative group meetings.
- Manage and maintain highly specialized screening equipment – including high content screening microscopes and liquid handling instrumentation.
- Manage and maintain Therapeutic Screening Center (TSC) chemical compound library and database.

Basic Qualifications

MS in developmental biology, neuroscience, molecular biology, or biochemistry and 5+ years of experience are required. Prior experience designing and conducting screening assays is required.

Additional Qualifications

- Prior experience in a biotechnology or pharmaceutical company is preferred.
- Experience in maintaining mouse and human ES and iPS lines and in producing and maintaining differentiated cells, such as neurons.
- Knowledge of high content screening, general familiarity with liquid handling robotics and reporter gene assays.
- Strong organizational and communication skills.
- Ability to work with a multidisciplinary group of scientists in a dynamic team environment.
- Ability to tackle multiple projects simultaneously is essential.
- Supervisory experience and experience mentoring students/trainees is strongly preferred.

Additional Information

This is a two-year term position with the possibility of extension based on satisfactory performance and continued availability of funding.

All formal offers will be made by FAS Human Resources.

We invite individuals with diverse backgrounds, experiences and abilities to be a part of our community

Job Function

Research

Sub-Unit

Location

USA - MA - Cambridge

Department

Stem Cell and Regenerative Biology

Time Status

Full-time

Union

00 - Non Union, Exempt or Temporary

Salary Grade

057

Pre-Employment Screening

Education, Identity

Schedule

Monday - Friday, 9 am - 5 pm

EEO Statement

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions, or any other characteristic protected by law.