

## **SCIENTIST, Watertown, MA**

We are a passionate team of scientists with a deep understanding of neurodegeneration, pushing the boundaries of what's possible in science with the purpose of making a difference in the lives of people affected by neurodegenerative diseases. Driven by innate curiosity and strong values, we see the opportunity to make a meaningful impact.

To realize our vision, we need team players with passion, creativity and scientific acumen to solve challenging problems. If that's you, join us!

**DESCRIPTION SUMMARY:** Design experiments to support target identification efforts as well as disease phenotypes biology for our main discovery program. Use deep knowledge of neurodegenerative diseases literature to propose novel targets for future discovery efforts. Position is >75% lab-based.

### **ESSENTIAL FUNCTIONS:**

- Development of assays to probe mechanism of action of compounds
- Assessment of compound efficacy via biochemical and molecular biology techniques, such as immunostaining, immunoblotting, qPCR
- Development and execution of high-content imaging assays to explore disease-related phenotypes
- Interaction and collaboration with team members to improve compound properties and activity based on mechanism of action studies:
  - Using the literature to identify tool molecules which will then be used to probe different cellular compartments for understanding mechanism of action of molecules
  - Using molecular techniques (siRNA, CRISPR)
- Analysis of experimental data, addressing methodological problems in experimental protocols and results, and presenting data:
  - Interpretation of data must be understood in larger context to help advance programs
  - Finding creative solutions to technical challenges
  - Summarize data for direct presentation and to support management with board of directors presentations
- Documentation, compilation, and assistance in interpretation of experimental data
- Supervise one Senior Research Associate

### **REQUIREMENTS:**

Education: PhD or foreign equivalent in neuroscience or closely related discipline

Experience: Two years of post-doctoral and/or industry research experience with:

- Isolating and culturing primary neurons as well as iPSC-derived neurons
- Designing and executing experiments using CRISPR-Cas9 systems
- Assessing intracellular pathways to investigate molecular mechanism of proprietary compounds