

## Research Fellow Position, Rauch Lab at UMass Amherst

### Job Description:

#### ***Research in the Rauch Lab***

The Rauch lab at the University of Massachusetts Amherst focuses on understanding cellular and molecular mechanisms underlying the pathology of neurodegenerative diseases. As this is a new laboratory at UMass, you will be working and learning directly from Assistant Professor Jenny Rauch. In this role you will be integral to the set-up of the laboratory, including organizing shipments, preparing solutions, creating inventories, and banking cell stocks. Additionally, you can expect to participate in basic research activities, such as cell culture and molecular biology. This position is well-suited for individuals interested in eventually pursuing Masters, PhD or MD/PhD programs.

#### **Essential Functions:**

In this position, you will learn and be responsible for:

- General lab maintenance and organization
- Organizing shipments, receiving and stocking of reagents
- Inventory management and record keeping
- Culturing cells and practicing sterile technique
- Molecular Biology (cloning, qPCR)
- Participating in group meetings which include high-level scientific discussions and data interpretation

#### **Minimum Qualifications:**

- B.A. or B.S. in molecular/cellular biology, biochemistry, neuroscience or related field
- Highly organized, attention to detail, demonstrated record-keeping abilities
- Math skills required for simple dilutions and cell counting
- Working knowledge of MS Office (Word, Excel, Powerpoint)
- Excellent verbal and written communication skills

#### **Preferred Qualifications:**

- Experience managing a laboratory
- Experience culturing cells with demonstrated proficiency in sterile technique
- Experience with human iPSC culture and techniques
- Experience in molecular biology, such as PCR or molecular cloning
- Working knowledge of flow cytometry and microscopy
- Bioinformatics experience, such as imaging analysis or next-generation sequencing data

#### **Application Instructions:**

For more information, please contact [rauch@umass.edu](mailto:rauch@umass.edu) with your CV/resume (include education, GPA, research experience, and contact information for 3 references).