Postdoctoral Research Fellow, Computational Biology and Neuroscience

Job ID: 201910-128315

Job Function
Research

Location
South San Francisco
California
United States of America

Company/Division
Pharmaceuticals

Schedule
Full time

Job type
Temporary (Fixed Term)

Job Level
Individual contributor

The Position

Lab: Joint with Brad Friedman and Casper Hoogenraad

http://www.gene.com/scientists/our-scientists/brad-friedman
https://www.gene.com/scientists/our-scientists/casper-hoogenraad

Using Genomics to Understand Neurodegenerative Disease

Seeking an independent and creative researcher for a Postdoctoral training position joint with the Friedman (bioinformatics) and Hoogenraad (neuroscience) labs to study the mechanism of neurodegeneration in human diseases, with a focus on Alzheimer's (AD) and Parkinson's (PD) diseases. There are three potential areas for this candidate:

1. Genomic analysis (such as single nucleus RNA sequencing or mass spectrometry) of human disease tissue, such as AD cortex, PD substantia nigra, or CSF samples, to gain new insights into disease processes. Integration with data from mouse models and human genetics.
2. Studying the role of lipid biology in neurodegeneration, including perturbation of known GWAS associated-genes in mouse models and lipidomic analysis of mouse and human tissue, to generate and test hypothesis about the role of lipid biology in disease.
3. Exploring the role of MHC-II GWAS loci in neurodegenerative disease. Leveraging existing MHC analysis tools to develop mechanistic hypotheses about disease-associated loci. Examining in-house and public databases to assess the contribution of MHC genotypes to AD and PD disease risk and progression. Testing hypotheses in mouse or cultured human cell models.

Who You Are

Candidate should have a doctoral degree in one of the following fields: Computational Biology, Neuroscience, Cell Biology, Molecular Biology, Immunology. Candidate should be

interested in and have demonstrated the capacity to execute a research program with a strong computational component. Experience in molecular and cell biology techniques, as well as neuroscience laboratory techniques would also be beneficial, although the extent to which the candidate will either work at the bench or collaborate with other bench scientists will depend on their abilities and interests.

Enthusiasm in tackling complex biological problems, vigorous scientific logic and quantitative thinking, willingness to dedicate exceptional amount of efforts and time to computational analysis (and possibly bench research), and solid technical skills are essential qualities. Candidates pursuing career paths other than research scientist are discouraged from applying. Qualified candidates must have strong publication record to demonstrate productivity and independent thinking.

https://www.gene.com/careers/university-and-early-career/postdocs

Who We Are

A member of the Roche Group, Genentech has been at the forefront of the biotechnology industry for more than 40 years, using human genetic information to develop novel medicines for serious and life-threatening diseases. Genentech has multiple therapies on the market for cancer & other serious illnesses. Please take this opportunity to learn about Genentech where we believe that our employees are our most important asset & are dedicated to remaining a great place to work.

Genentech is an equal opportunity employer & prohibits unlawful discrimination based on race, color, religion, gender, sexual orientation, gender identity/expression, national origin/ancestry, age, disability, marital & veteran status. For more information about equal employment opportunity, visit our [Genentech Careers page](#).