

POST-DOCTORAL FELLOWSHIP IN NEUROGENETICS

Laboratory description:

The Neurodegenerative Diseases Research Unit (NDRU) is a neurogenetics laboratory within the Intramural Research Program at the National Institutes of Health in Bethesda, MD, USA. As part of this world-class research environment, we have access to cutting edge sequencing technologies and extensive expertise in genome analysis and human genetics. The mission and long-term goal of the NDRU are to understand how genetic changes influence the risk of developing complex neurodegenerative diseases. We also aim to use genetic knowledge for the development of novel ancillary diagnostic tools. We specialize in applying modern gene discovery technologies, including genome-wide association testing, genome sequencing, and genomic data integration.

Position summary: To fulfill the mission of NDRU, we are searching for a highly collaborative and inquisitive scientist to join our team. This position is a full-time post-doctoral fellowship that requires previous experience in genetics. The successful applicant is expected to design, execute, and analyze large-scale genomic experiments, such as genotyping and next-generation sequencing applications, and to assist in the project management and analysis of large genomic datasets. Aside from wet lab experience, the applicant is expected to mine clinical and genetic datasets, perform association analyses and supervise research technicians. The post-holder is expected to read the pertinent literature, write peer-reviewed research articles, and deliver her/his research findings to international audiences in the field of neurogenetics. Upon successful completion of the fellowship, the applicant will be able to design, execute, analyze, and lead large-scale genomics projects.

Key requirements:

- M.D. or Ph.D. in a relevant life science discipline
- Experience with experimental genetic design and classical statistics
- Experience in commonly used gene discovery strategies (e.g., GWAS, segregation analysis, candidate gene analysis, etc.)
- Experience with analyzing and reviewing publicly available data (e.g., Human Gene Mutation Database, dbGaP, GnomAD, etc.)
- Scripting, statistical and visualization skills, such as R, Unix, Python, PLINK, etc.
- Excellent analytical, organizational and time management skills
- Strong communication and presentation skills, both oral and written
- Ability to work to tight deadlines
- Ability to work as part of a team is essential

Interested candidates should contact Dr. Sonja Scholz (Email: sonja.scholz@nih.gov). Please provide an updated CV, three letters of recommendation and a cover letter.

