

Postdoctoral Researcher in Neuroepigenetics & Neurobiology

The Haghghi laboratory is studying the epigenetic profiles of human brain development and its emerging role in gene regulation, as well as its fundamental importance for our understanding of normal and pathological neuronal function. Epigenetic patterns in the genome vary among tissues and cell types in normal and pathological states. A major unanswered question is how epigenetics plays a role in neuronal development and how alterations in normal epigenetic processes during development lead to neurodevelopmental diseases, such as autism and schizophrenia. Next-gen sequencing technologies now allow a global view of whole genome epigenetic profiles. Studies generate whole genome DNA methylation data to detect differentially methylated regions associated with disease and their potential function through genomic data mining. This interdisciplinary group offers an excellent environment to uncover new fundamental principles and regulatory mechanisms in this emerging area of genome biology.

The postdoctoral candidate will lead the development and application of epigenomic techniques including library construction for next-gen sequencing of DNA methylation and histone modifications (BS-seq and ChIP-Seq). The successful candidate will be a highly motivated individual capable of working independently, with excellent written and verbal communication skills. Individuals with experience in whole-genome bisulfite sequencing, miRNA/RNA and chromatin analysis are strongly encouraged to apply. Candidates must have a Ph.D. and considerable background in neuroscience and molecular biology.

ELIGIBILITY: All applicants must currently be eligible to work in the U.S.

SALARY & BENEFITS: Commensurate with experience

HOW TO APPLY: Applicants should send a curriculum vitae/resume and provide contact information for references.

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