

**Opportunity:** Postdoctoral Research Opportunity in Epigenomics at Columbia University in New York City

Columbia University Medical Center is one of the world's foremost centers for patient care and health science education. It is also one of the world's leading biomedical research organizations, and provides a unique environment to support breakthrough discoveries in this fundamental area of biology.

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 involve development and application of epigenomic techniques including library construction for next-gen sequencing of DNA methylation and histone modifications (BS—seq and ChIP-Seq). Experience in bisulfite sequencing, real-time PCR, chromatin IP, and neuronal nuclei isolation is highly desirable. Candidates with a PhD in the biological sciences with a strong background in molecular biology are encouraged to apply.

The successful candidate will be a highly motivated individual capable of working independently, with excellent written and verbal communication skills. 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, a brief statement of research interests, up to three reprints/preprints, and arrange for three letters of recommendation. Application material should be sent by email (a single PDF file preferred) to Dr. Fatemeh Haghghi at [fg3@columbia.edu](mailto:fg3@columbia.edu)

Letters of recommendation may be sent by email to [fg3@columbia.edu](mailto:fg3@columbia.edu) upon request.

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