Paul F. Glenn Center for the Biology of Aging
Harvard Medical School
Department of Genetics – Sinclair Lab

Molecular/Computational Biology Post-doctoral (Ph.D.) position available

We are seeking a talented, highly motivated Ph.D. to join the laboratory of Professor David Sinclair in the Genetics Department at Harvard Medical School, Boston. The Sinclair lab is known for their work on genes and small molecules that delay aging and treat age-related diseases. The lab has a wide range or expertise and interests, including cancer, neurodegeneration, diabetes, and fertility.

We are seeking a self-driven individual with expertise in Chromatin Immunoprecipitation (ChIP) Assay Development. The position offers an opportunity to work with an engaged group of scientists and participate in cutting-edge genomic and epigenomic studies funded by, and in collaboration with NASA. The ideal candidate will have hands on experience with ChIP assay development as well as with linux-based bioinformatic software and interactive ChIP-Seq data analysis environments (Python/R). The position requires expertise in epigenomics. The candidate will work on development of epigenetic biomarkers of aging. This includes both the use of existing approaches and the development of new ones.

Principal Responsibilities:

- Lead the development of new bioanalytical methods and pipelines to characterize epigenetic biomarkers.
- Work with molecular and computational biology teams to design omics experiments.
- Process, analyze and interpret high volumes of data as part of a wide range of internal and external studies.
- Monitor and evaluate new and emerging technologies relevant to the lab.
- Present scientific and technical data to both internal and external colleagues in a clear and cohesive manner.
- Work independently and prepare timetables, deliverables, and project schedules.

Required Skills/Abilities/Competencies:

- Ph.D. in Genetics, Molecular biology, Biochemistry, or related fields.
- Experience in scientific programming/scripting for analysis of biological data, especially ChIP-Seq.
- Proven understanding and hands on experience with ChIP-Seq, in the fields of epigenomics, high-throughput sequencing, data processing, and data analysis.
- Experience in linux-based environments.
- Experience with statistical analysis.
- Strong scientific understanding of molecular and cellular biology, genetics and genomics.
- Candidates must demonstrate outstanding personal initiative.
- Excellent teamwork, time management and organizational skills.
- Ability to work independently in a multidisciplinary, fast-paced, dynamic and results-oriented environment.
- Ability to present data to a multidisciplinary audience in a clear and cohesive manner.
- Ability to meet deadlines and multitask efficiently is a must.

The ideal candidate will have a record of scientific rigor and creativity, a strong publication record in peer-reviewed scientific journals and the ability to work in teams. Candidates should have a strong background in epigenomics. Excellent oral and written communication skills are required. The individual will present regular updates to academic and industry collaborators as well as prepare and publish research reports. There is a real opportunity to invent and to innovate.

To apply, send cover letter and CV to luis_rajman@hms.harvard.edu