



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



### **Molecular Biology/Genetics Post-doctoral (Ph.D.) position available immediately**

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 of expertise and interests, including cancer, neurodegeneration, diabetes, and fertility.

We are seeking a self-driven individual with a very strong background in molecular biology and genetics. The position offers an opportunity to work with an interdisciplinary group of scientists and participate in cutting-edge research combining genomics, molecular biology and biochemistry. The ideal candidate will have experience working with construction and expression of gene-based libraries, *in vitro* screening assays for gene-based libraries and gene to function studies. The position requires expertise in genetics, molecular biology, protein expression and cell biology. The candidate will design and conduct gene-based high throughput *in vitro* screens. The focus of the candidate will be on applying molecular cloning and biology approaches to determine the cellular function and role of the candidate genes in aging and age-associated diseases.

#### **Principal Responsibilities:**

- Lead in the development and execution of gene-based high throughput screens.
- Work with molecular biology and bioinformatic teams to design experiments and analyze data.
- Monitor and evaluate new and emerging technologies relevant to the project.
- 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 Molecular Biology, Genetics or related fields.
- Strong scientific understanding of molecular and cellular biology, genetics and genomics.
- Extensive experience in gene-based *in vitro* screens.
- Experience with *E. coli* and/or *Pichia pastoris* protein expression systems
- Experience with peptide purification and analysis
- Experience with statistical analysis is strongly preferred.
- Excellent track record proving understanding and experience in the fields of genetics, molecular biology and high-throughput screening.
- 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 genetics and molecular biology. 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](mailto:luis_rajman@hms.harvard.edu)**