

POSTDOCTORAL SCHOLAR EMPLOYMENT OPPORTUNITY

The Benayoun laboratory (<http://gero.usc.edu/labs/benayounlab/>) at the USC Leonard Davis School of Gerontology focuses on the study of how aging influences gene regulation, and in return, how modulation of the genomic regulation can influence the aging process. To study this question, we use a unique combination of high-throughput ‘omics’ approaches and experimental validation in primary cultures and vertebrate aging models (*e.g.* mouse, African turquoise killifish, etc.). The goal of the lab is to discover novel target genes and pathways playing a fundamental role in healthy and pathological aging, while leveraging the power of big data to direct novel experimental interventions.

A key direction in the laboratory is in the study of age-related sex differences in innate immune cells (*e.g.* macrophages, neutrophils) and inflammation, using the mouse as a model. The laboratory has identified a signature of female-specific changes in aged macrophages and is dissecting potential upstream regulators responsible for female-specific changes. **We are seeking a skilled and motivated scientist to join the lab as a postdoctoral fellow and make leading contributions to aging research by deciphering the molecular mechanisms of sex-dimorphism in aging.**

Successful candidates should have strong training and publication records, and must be able to learn and work independently, yet collaborate effectively with students and staff within the lab. The ideal candidate will have training in experimental biology, with an emphasis on mouse knowledge. Previous experience in experimental genomics (*e.g.* ChIP-seq, RNA-seq, ATAC-seq), steroid hormone biology, and/or immunology are highly desirable. Candidates should have, or will soon receive, a Ph.D. or equivalent diploma in molecular and cellular biology, immunology, genetics, or a relevant subject area. The successful candidate will work closely with the PI. Extensive training will be available in all areas of highly impactful projects.

Applicants should send a resume, a cover letter and career goals, and contact information for at least 3 references to the PI (Dr. Benayoun; [bbenayou\[at\]usc.edu](mailto:bbenayou[at]usc.edu)).