

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 chromatin and gene regulation, and in return, how modulation of gene regulation mechanisms can influence the aging process. To study this question, we use a unique combination of high-throughput 'omics' approaches, machine-learning, and experimental validation in vertebrate aging models (e.g. mouse, African turquoise killifish, etc.) and adult somatic cells (e.g. neural stem cells, macrophages, neutrophils). 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.

The laboratory is looking for a highly skilled and motivated postdoctoral research scholar to make leading contributions to cutting-edge research in aging biology. Successful candidates should have strong training and publication records, and must be able to learn and work independently, yet collaborate effectively, with co-workers within the lab and the school. The ideal candidate will have training in experimental or computational biology and should be interested in becoming comfortable/involved with concepts in both research approaches in the long run. On the experimental end, experience with animal experimentation, especially in fish species, would be highly desirable. On the computational end, knowledge of basic genomic analysis techniques would be welcome but are not a prerequisite. Candidates should have, or will soon receive, a Ph.D. or equivalent diploma in genetics, molecular/cellular biology, computational biology, genetics, or a relevant subject area.

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