

## Post-Doctoral Positions Available in Aging and GeroScience at the Oklahoma Nathan Shock Aging Center

- Research on neuroepigenomics using novel animal models to understand cell-type specific alterations in epigenome and transcriptome with aging and between sexes. Willard Freeman, Ph.D. ([willard-freeman@OUHSC.edu](mailto:willard-freeman@OUHSC.edu)).
- The role of necroptosis on inflammaging and aging using novel transgenic/knockout mouse models. Arlan Richardson, Ph.D. ([arlan-richardson@OUHSC.edu](mailto:arlan-richardson@OUHSC.edu)).
- Age- and sex-dependent alterations in synaptic transmission in basal ganglia circuitry, using mice and a combination of electrophysiology, behavior, optogenetics, and chemogenetics. Mike Beckstead, Ph.D. ([mike-beckstead@omrf.org](mailto:mike-beckstead@omrf.org)).
- The intersection of aging and cigarette smoking in the development of age-related macular degeneration. Scott Plafker, Ph.D. ([plafkers@omrf.org](mailto:plafkers@omrf.org)).
- Research on the role of mitochondria and metabolism in maintaining proteostasis by using stable isotopes and proteomics in cells, animals, and humans. Benjamin Miller, Ph.D. ([benjamin-miller@omrf.org](mailto:benjamin-miller@omrf.org)).
- The roles of stress-responsive transcriptional factors in longevity, and their regulation in tissue-specific gene expression using *C. elegans* as a model. Jian Li, Ph.D. ([jian-li@omrf.org](mailto:jian-li@omrf.org)).
- Research on the molecular basis of exercise for osteoarthritis therapies by testing metabolic mediators of synovial joint inflammation. Tim Griffin, Ph.D. ([tim-griffin@omrf.org](mailto:tim-griffin@omrf.org)).
- Research into potential mechanisms underlying sex differences in age-related metabolic dysfunction. Mike Stout, Ph.D. ([mike-stout@ouhsc.edu](mailto:mike-stout@ouhsc.edu)).
- To investigate cellular and biochemical mechanisms responsible for cognitive impairment with age in animal models. William Sonntag, Ph.D. ([william-Sonntag@ouhsc.edu](mailto:william-Sonntag@ouhsc.edu)).
- Research on the molecular and cellular mechanisms of cardiac aging and aging-associated predisposition to cardiovascular diseases. Ann Chiao, Ph.D. ([ann-chiao@omrf.org](mailto:ann-chiao@omrf.org)).

**Post-doctoral research will be conducted at either the University of Oklahoma Health Sciences Center or the Oklahoma Medical Research Foundation**