



BARSHOP INSTITUTE FOR LONGEVITY AND AGING STUDIES



**POST-DOCTORAL FELLOW (Full-time)
NIH TRAINING GRANT
(This is a competitive position limited to US Citizens and Green Card Holders)**

Where:

Laboratory of Shane Rea, Ph.D.
Barshop Institute for Longevity and Aging Studies
University of Texas Health Science Center
Texas Research Park Campus
San Antonio, Texas

Nature of Work: The Rea laboratory combines worm, yeast and mouse models to understand the mechanism of cellular and organism aging. Our primary model is the *C. elegans* Mit mutants, a collection of genetic- and RNA-defined gene disruptions that reduce mitochondrial electron transport chain functionality yet, paradoxically, increase lifespan. Currently, we have identified the key component mediating the longevity signal in the Mit mutants. A position is open to join our team at this very exciting time.

Research in the laboratory spans genetics, mitochondrial biochemistry and metabolomics, tissue culture, advanced metabolic studies using GC-MS, and high-throughput drug screening.

The laboratory in which the position is available is spacious, very well-equipped and has a dynamic and highly motivated atmosphere. It is situated at the Barshop Institute for Longevity and Aging Studies, in the Texas Hill Country just outside of San Antonio. The recently built Institute, which is part of the University of Texas System and is devoted exclusively to aging research, has modern equipped facilities that include advanced imaging systems (fluorescent and confocal microscopy), microarray robotics, bioenergetic facilities and several dedicated core services.

Qualifications: Ph.D. in one of the following fields: Chemistry, Biochemistry, Molecular Biology, Genetics, Cell Biology or related fields.

Highly Desirable: Ability to work independently. Technical experience in at least two of the following areas: Worm, yeast or mouse genetics, mitochondrial analysis, mass spectrometry, radiotracer analysis, drug screening, computational biology, molecular modeling.

To Apply: E-mail Dr. Shane Rea at reas3@uthscsa.edu