

FUNDING OPPORTUNITY: TRANSLATIONAL GEROSCIENCE

YALE PEPPER CENTER REQUEST FOR LETTER OF INTENT

The Yale Pepper Center is soliciting letters of intent from Yale faculty for new initiatives in translational geroscience. This pilot grant program, sponsored by the Department of Internal Medicine, Department of Pathology, and School of Medicine, is designed to facilitate innovative and high-impact translational geroscience research and to establish/strengthen cross-disciplinary collaborations.

Translational Geroscience: The primary premise underlying the field of translational geroscience is that aging is the major risk factor for most chronic diseases. The geroscience hypothesis purports that significant gains in healthspan, as opposed to lifespan, can only be achieved by intervening upon the fundamental mechanisms of aging. [Candidate mechanisms \(or hallmarks\) of aging include](#) mitochondrial dysfunction, cellular senescence, epigenomic alterations, telomere shortening, loss of proteostasis, deregulated nutrient sensing, stem cell exhaustion, altered intercellular communication, and genome instability. [First-generation gerotherapeutics](#) that target these mechanisms of aging are currently being tested in early-stage clinical trials. After proof-of-principle has been established, [such agents will be tested in larger clinical trials](#) that focus on clinical and geriatric outcomes, including multimorbidity, frailty and cognitive decline.

Scope: Letters of intent must propose new initiatives that combine Yale investigators from different disciplines and/or diverse backgrounds to work on specific problems relevant to translational geroscience. Human-based research should be involved. The study must ultimately translate to treatment that could slow the aging process, [with the goal of extending healthspan](#). The proposed research should allow investigators to generate preliminary data for submission of team-oriented extramural grant applications.

Eligibility requirements: Full-time Yale faculty members at the assistant professor level or higher may submit a letter of intent. Participation by two or more investigators from different disciplines is required. Teams that include faculty from more than one department are encouraged, although the PI should have a primary appointment in the School of Medicine.

Funding: Investigators may request up to \$75,000 for a 1-year pilot project. It is expected that the award will be used to support individuals and to provide materials that will enable the development of integrated programs and generation of preliminary data. We anticipate that up to two awards will be made.

Key dates:

Due date for letter of intent: January 14, 2025 by 5:00 PM

Invitation for full proposal issued by: February 7, 2025

Due date for full application: March 17, 2025 by 5:00 PM

Earliest anticipated start date: July 1, 2025

Application materials, including a complete set of instructions, may be obtained from the Pepper Center website: <https://medicine.yale.edu/internal-medicine/geriatrics/peppercenter/geroscience/>