Featured  
*Single transfusion of old blood ages young mice unless the old mice are pre-treated with senolytics*

Old blood reduces lifespan in young mice

**Special Issue of JGBS devoted to the impact of FOXO3 (aka DAF16) variants in worms to humans**

*What nature can teach us about living longer, healthier lives*

**Headline vs Study**

**Headline:** *Study finds loss of 'youth' protein may drive aging in eye*

**Study:** *PEDF Deletion Induces Senescence and Defects in Phagocytosis in retina of mice of undetermined sex*

**Headline:** *Scientists Discover Postbiotic May Combat Age-Related Muscle Decline*

**Study:** *Effect of Urolithin A Supplementation on Muscle Endurance and Mitochondrial Health in Older Adults: A Randomized Clinical Trial*

**Headline:** *Cells become zombies when the ends of their chromosomes are damaged – a tactic both helpful and harmful for health*

**Study:** *Telomeric 8-oxo-guanine drives rapid premature senescence in the absence of telomere shortening*

**Headline:** *A ‘Reversible’ Form of Death? Scientists Revive Cells in Dead Pigs’ Organs.*

**Study:** *Cellular recovery after prolonged warm ischaemia of the whole body*

**Headline:** *Stress of climate change is aging lizards before they’re even born*

**Study:** *Lizards from warm and declining populations are born with extremely short telomeres*

**Headline:** *COVID-19 infection in crucial brain regions may lead to accelerated brain aging*

**Study:** *SARS-CoV-2 and the central nervous system: Emerging insights into hemorrhage-associated neurological consequences and therapeutic considerations*

**Contrary or Null Findings**

*Long COVID risk increases with decreasing age*
Vitamin D3 supplementation fails to reduce fracture risk in healthy midlife and older adults.

CR and IF fail to improve late-life cognition in genetically diverse mice, despite lifespan increase.

Older and younger runners exhibit comparable gait adaptations to fatigue.

Phase II trial: Anti-Tau Antibody Fails to Slow Alzheimer Disease.

Longevity shorter in large-brained fishes.

25-year study fails to detect senescent decline in survival or reproduction in a cooperatively breeding bird.

Even with wounding or infection larval diet affects adult fly reproduction, but not survival.

Serum syndecan-4 correlates with age-related cardiovascular alterations but not proinflammatory markers in healthy older women.

Number but not intensity of daily steps associated with lower mortality rates among middle-aged Black and White men and women.

Thermal stress during development does not affect lifespan and age-dependent mortality in seed beetles.

Much anticipated new treatment provides no benefit in people with the AD Paisa mutation.

Physical activity is not associated with fall or fracture risk in older adults.

**Energetics/Nutrition**

Sarcopenia associated with serum IGF-1 levels in elderly men but not elderly women.

Review: Do cell extracts of intestinal probiotics convey health benefits in age-associated neurodegenerative diseases?

**Basic Biology**

Hypermutable in the brain associated with age.

Sex Differentially Alters Secretion of aging-related Brain Extracellular Vesicles in mice.

Cells cultured from osteoarthritis (OA) patients find connexin 43 promotes senescence.

An X-specific condensin complex affects lifespan and tolerance to proteotoxic stress in C. elegans.

Aging desexualized the Drosophila brain transcriptome.

Male C. elegans show greater stress resistance than hermaphrodites.

Adipocyte-specific growth hormone receptor disruption improves insulin sensitivity with marginal effects on mouse longevity.
Cellular senescence associated with long COVID-19 pulmonary complications

Brain aging differs with cognitive ability regardless of education

Analysis of high-throughput sequencing of nuclear-encoded mitochondrial genes in centenarians versus normal-lived controls reveals a genetic signature of exceptional human longevity

Canagliflozin increases lifespan in male, but not female, genetically heterogenous mice

New gene set predicts senescence-associated pathways across tissues and species

Sex difference found in candidate longevity genes on life expectancy in human cohort study

Methods for efficient construction of accurate epigenetic clocks

Protocol: Beyond parabiosis, small animal blood exchange

Review: The role of the heat shock transcription factor 1 (HSF1) in proteostasis and longevity in worms.

Review: Cellular senescence: the good, the bad and the unknown

Review: The role of extracellular vesicles in cellular senescence

Review: Mitochondrial-to-nuclear communication in aging: an epigenetic perspective

Review: Cellular senescence and senolytics: the path to the clinic

Review: An important distinction: GH and GHR vs IGF-1 and Insulin

Review: Mutation rate and lifespan

Review: Mitochondrial Epigenetics Regulating Inflammation in Cancer and Aging

Ecology & Evolution
The extension of foundress life span in the Hymenoptera


Genetic and social contributions to sex differences in lifespan in Drosophila serrata

Semelparous death: aging along the iteroparous continuum

Model suggests unguarded X effects are too small to explain observed sex differences in life span

Review: Evolution of the hallmarks of aging since the Last Universal Common Ancestor

Review: Experimental evolution of aging and longevity

Review: Mutual antagonism between AhR/HIF-1α signaling affects aging

Novel Organisms/Comparative
Axolotl longevity and anti-aging mechanisms suggest model for aging studies.

A comprehensive map of the naked mole-rat blood system reveals resilience phenotypes

Cold catfish live long, slow lives in Sweden

Krill oil extends mean and maximum lifespans of aged male *Nothobranchius guentheri*

Tissue-specific differences in mitochondrial function in aged zebra finches, *Taeniopygia guttata*

Dehorning does not affect lifespan in Namibian populations of the black rhinoceros (*Diceros bicornis bicornis*)

Are medically extended lifespans responsible for cancer in dogs and humans?

**Epidemiology/Demography**

*Life expectancy gap by income level increased during the first 2 years of the COVID-19 pandemic in California*

Age-adjusted dementia incidence rates differ based on race and ethnicity in large VHA study.

Exercise: how much, not how often, linked with all-cause and cause-specific mortality

*BMI decline accelerates years before death in community-dwelling older adults*

*Epigenetic clock acceleration is correlated with Parkinson's Disease age at onset*

Residents of Brazilian areas with endemic leprosy show accelerated epigenetic age compared with age-matched Italians

**Clinical**

*Can appropriate dental care take a bite out of frailty and cognitive decline?*

*Physiological aspects of pain perception and management in older humans*

*Changes in frailty status but not risk of death modulated by sarcopenia*

*Women may be at higher BP-related risk than estimated by cuff measurements*

*Person-Centered Memory Care Through Montessori for Dementia and Ageing: A Quality Improvement Study*

*Frailty: understanding the difference between age and ageing*

*A leg to stand on: balance performance and fall risk*

**Care-giving**

*Family stigma associated with a higher risk of caregiver burden*

**Policy/Ethics**

*Childhood socioeconomic factors associated with odds of multimorbidity in older age*

*Does private equity investment in nursing homes decrease quality and increase cost?*
Healthy aging and inequity

Incarceration exposure and perceived neighborhood crime accelerate epigenetic aging

Commentary
Blots on a field

Study finds overconfidence associated with anti-scientific views