

AGING BIOLOGY UPDATE

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UAB NATHAN SHOCK CENTER OF EXCELLENCE
IN THE BASIC BIOLOGY OF AGING

Featured

[Prolonged fasting, not calories, drives the dietary-restriction effect in male C57BL/6 mice](#)

Need for improved collaborations between geroscientists and neuroscientists: [A perspective, geroscience primer](#), and [neuroscience primer](#)

Headline vs Study

Headline: [Staying young: Scientists discover new enzymatic complex that can stop cells from aging](#)

Study: [A hydride transfer complex reprograms NAD metabolism and bypasses senescence](#)

Headline: [Scientists could ‘reverse aging’ with poo transplants after mice age backward in study](#)

Study: [Microbiota from young mice counteracts selective age-associated behavioral deficits](#)

Contrary or Null Findings

[Diuron does not extend lifespan in worms](#)

[Loneliness is not associated with dementia risk](#)

[Increased osteoarthritis severity in male guinea pigs fed a rapamycin supplement](#)

[No association of telomere length with longevity in marine mammals](#)

Energetics/Nutrition

[Genetic methionine restriction increases lifespan in fruit flies](#)

[Intermittent time restricted feeding increases lifespan in fruit flies](#)

[Innate immune remodeling by short-term intensive fasting](#)

[Fast mimicking diet mitigates some deleterious effects of a high fat diet in female mice](#)

[Meta-analysis: Exercise interventions in Alzheimer’s disease](#)

Basic Biology

[Senescent immune cells release grancalcin which promotes skeletal aging in male mice and rats](#)

[Many different chronological aging clocks in the epigenome, how to interpret?](#)

[Hair follicle stem cell escape their niche leading to stem cell exhaustion in aged mice](#)

[A metabolome atlas of the aging mouse brain](#)

[Does random variation in ROS levels account for stochastic variation in longevity?](#)

[Melatonin improves cognitive function through mitophagy in Alzheimer's mice of unreported sex](#)

[Age-related changes in the brown fat metabolome of male mice](#)

[Review: Hydrogen sulfide in aging, longevity, and disease](#)

[Review: Metabolic roots of senescence](#)

[Review: Estrogen receptors and the aging brain](#)

[Review: Organoids as models of human aging](#)

[Review: Recent advances in the discovery of senolytics](#)

[Review: Balancing proteostasis for reproduction](#)

[Review: The adaptive aging brain](#)

Ecology & Evolution

[Modular evolution of the Drosophila metabolome and its association with age and longevity](#)

[Gene co-expression changes with age in a long-lived bat species](#)

[Age-related declines in red plumage in male crossbills](#)

[Methylation aging patterns of wild roe deer](#)

Novel Organisms/ Comparative

[Epigenetic clocks as a tool to measure ages of wild lobsters](#)

[The spiny mouse as a model of menstruation, ovarian aging, and menopause](#)

[Epigenetic clock of vervet monkeys](#)

[A bat model of brain aging](#)

[Review: Aging in insects](#)

Epidemiology/Demography

[Metabolic dysregulation associates with cognitive decline in women but not men](#)

[Good news for Italian men: mortality rate converges with women's after age 108](#)

[Low circulating klotho associated with increased mortality risk in middle-aged and older humans](#)

[Increasing tree cover in cities significantly reduces heat related mortality](#)

[Senolytics and the compression of late-life mortality](#)

Clinical

[Small calf circumference predicts mortality in older adults](#)

[Review: Inflammaging in childhood cancer survivors](#)

Caregiving

[Caregivers: White females experience less financial burden but more emotional and physical burden than Black females or males](#)

Policy/Ethics

[Effect of working after retirement on the mental health of older people](#)

[Well-intentioned aging related policies can have negative consequences on older adults](#)

Commentary

[Want to add healthy years to your life? Here is what new longevity research says](#)

[Ageism: Seniors feel healthcare providers devalue them](#)

[A leucine-derived fatty acid unlocks the mTOR to development](#)

[We are more than what we eat](#)

Odd and Ends

[Athletic performance declines faster after age 100 than before](#)

[Older adults who feel healthy use the Internet more](#)

Aging Biology Update is brought to you by the UAB Nathan Shock Center and compiled by Jessica Hoffman, Heather Patterson, Melissa Harris, and Steven Austad. [Subscribe to this newsletter](#).



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