

AGING BIOLOGY UPDATE

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

Featured

[FSH inhibition improves mouse versions of Alzheimer's disease](#)

[Caloric restriction in humans reveals immunometabolic regulators of healthspan](#)

Headline vs Study

Headline: [Harvard researcher develops new model system to illuminate the fundamentals of aging](#)

Study: [Intelligent high-throughput intervention testing platform in Daphnia](#)

Contrary or Null Findings

[No effect of testosterone levels on frailty in male mice](#)

[Unlike mammals, no age-related loss of the short sex chromosome in wild birds](#)

Energetics/Nutrition

[Ten minutes per day of physical activity could prevent 110,000 yearly deaths in the United States](#)

[Increased vitamin K consumption is associated with improved cognitive function in older adults](#)

[Idea: The energy-splicing resilience axis hypothesis of aging](#)

[Review: Mitochondrial and metabolic dysfunction in aging and age-related diseases](#)

[Review: Nutrition and inflammaging](#)

[Review: Targeting aging mechanisms: pharmacological perspectives](#)

Basic Biology

[Rapamycin, acarbose and 17alpha-estradiol share mechanism of MAPK pathway regulation](#)

[Single cell transcriptomics of heterochronic parabiosis in male mice](#)

[bioRxiv: Rapamycin during development extends lifespan and healthspan](#)

[The non-telomeric role of TRF2 in zebrafish is involved in neurodevelopment and aging](#)

[Gut microbiome diversity is associated with increased cognition in middle aged adults](#)

[Marijuana use is associated with accelerated epigenetic aging in young adults](#)

[Idea: The free radical theory of aging and frailty revisited](#)

[Review: Gut barrier disruption and chronic disease](#)

[Review: Geroprotectors and skeletal health](#)

[Review: NAD+ in COVID-19 and viral infections](#)

[Review: Stress responsive regulation of extracellular proteostasis](#)

Ecology & Evolution

[Novel theoretical model suggests aging can evolve](#)

[Review: Experimental evolution of aging and longevity](#)

[Review: Age related changes in social behaviors in mammals](#)

Novel Organisms/ Comparative

[Natural disaster accelerates biological age in Rhesus macaques](#)

[Decreasing antibody diversity with age compromises immune function in a short-lived killifish](#)

[A diet induced model of late onset Alzheimer's disease in rabbits](#)

[Review: Fish models of neurodegeneration](#)

Epidemiology/Demography

[Dog ownership associates with decreased risk of disability in older Japanese adults](#)

[Sex differences in life expectancy 1980-2020 and impact of 2020 COVID-19 deaths in US and peer countries](#)

[Review: Aging well for indigenous peoples](#)

Clinical

[Evidence that HIV infection accelerates the hallmarks of aging](#)

[Deep learning identifies brain structures that explain heterogeneity in cognitive aging](#)

[Association of treatable adolescent health conditions with accelerated aging at midlife](#)

[Low body temperature is associated with increased mortality risk in older frail patients](#)

[Sarcopenia diagnosis is associated with decreased quality of life 10 years later](#)

[Review: Sex Differences in Myocardial and Vascular Aging](#)

Caregiving

[Caregivers of persons with dementia saw increased stress after one year of caregiving during the COVID pandemic](#)

[The experiences of African American male caregivers](#)

Policy/Ethics

[Policy changes to eradicate senior poverty in Korea](#)

[Policies to support older workers with late age onset disabilities](#)

Commentary

[Too young to feel so old](#)

[Is sex as a biological variable still being ignored in pre-clinical aging research?](#)

Odd and Ends

[Longevity is not an ingredient of self-reported successful aging](#)

[How does occupation choice affect aging and longevity?](#)

[Cellular reprogramming and the rise of rejuvenation biotech](#)

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



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