

AGING BIOLOGY UPDATE

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

Featured

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[Health and life expectancy of the 2020 Presidential candidates](#)

Headline vs Study

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Study: [Deleterious mutations show increasing negative effects with age in Drosophila melanogaster](#)

Contrary or Null Findings

[No association between klotho levels and frailty in older adults](#)

[Diet and lifelong training do not affect cognitive changes with age in pet dogs](#)

Energetics/Nutrition

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[Review: Calorie restriction and retinal aging and neurodegeneration](#)

[Review: Metabolic regulation of aging and age-related diseases](#)

[Review: Epigenetic link between polyphenols, aging, and age-related diseases](#)

Basic Biology

[Age and life expectancy clocks based on mouse frailty indices](#)

[Novel SNPs in microRNAs associated with risk of late-onset Alzheimer's disease](#)

[Glial specific inhibition of insulin signaling increases longevity in fruit flies](#)

[Mouse genetic background influences the health impact of klotho deficiency](#)

[Modeling of vascular aging with induced cells from old and young donors and progeria patients](#)

[Medin aggregation causes cerebrovascular dysfunction in aging mice](#)

[Comparison of 11 epigenetic clocks across tissues types](#)

[A novel high-throughput rapid yeast chronological lifespan assay](#)

[Epigenetic age acceleration is higher in survivors of childhood cancer than controls](#)
[Accelerated epigenetic aging in HIV infection prior to antiretroviral therapy](#)

[A caspase-1 inhibitor delays cognitive decline in old mice](#)

[SUMO promotes longevity and maintains mitochondrial homeostasis in worms](#)

[Comparison of circular transcriptomes in synaptosomes in young versus old mice](#)

[Endoplasmic reticulum associated degradation maintains stem-cell identity and niche interactions](#)

[Ultrasensitive deletion detection links mitochondrial DNA replication, disease, and aging](#)

[Changes in mouse hair follicles and tissue stem cells with aging](#)

[Rapamycin preserves redox homeostasis in mouse muscle cells](#)

[Review: Tryptophan metabolites in musculoskeletal stem cell aging](#)

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Ecology & Evolution

[Small population size led to repeated bottlenecks and contribute to short lifespan in the turquoise killifish](#)

[Egg laying date and offspring survival varies with age in blue tits](#)

[Perspective: Hidden aging costs of sperm competition](#)

Novel Organisms/ Comparative

[Estimating age in sea otters](#)

[Microbiome of the long-lived blind mole-rat](#)

[bioRxiv: Sex differences in aging in the annual killifish](#)

Epidemiology/Demography

[Women with short reproductive lifespans have increased risk of cardiovascular disease](#)

[Novel medication score predicts 10-year mortality in aging adults](#)

[Canadian First Nations people have higher rates of frailty than the general population](#)

Clinical

[Long term aspirin use is associated with decreased risk of frailty in men](#)

[Women with polycystic ovary syndrome show early signs of osteosarcopenia](#)

[Cautionary tales of grip strength in health inequality studies](#)

Care-giving

[Certain caregiving characteristics increase hospitalization risk of disabled care receivers](#)

Policy/Ethics

[Aging in place: need for policy changes](#)

[Violence against older women: prevalence and necessary policy changes](#)

Commentary

[What if there's no such thing as 'aging'?](#)

[The lowest biological age at which both organismal life and aging begin?](#)

[How the aging immune system makes older people vulnerable to COVID-19](#)

[COVID-19 and geriatric clinical trials research](#)

[Exclusion of older persons from COVID-19 clinical trials](#)

Odd and Ends

[Across professional soccer players, goalkeepers live longer than field players](#)

[methylclock: a Bioconductor package to estimate DNA methylation age](#)

[Nrf2 contributes to weight gain of mice during space travel](#)

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



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