

AGING BIOLOGY UPDATE

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

Featured

[New online-only aging journal: *Nature Aging*](#)

[Glutaminolysis inhibition reduces senescent cells and improves organ function in male mice](#)

[MOTS-c supplementation improves physical performance in aged male mice](#)

Contrary or Null Findings

[No effect of caloric restriction on DNA methylation in Daphnia](#)

[No effect of phytoecdysteroids on muscle growth in aged male mice](#)

[High hematocrit is not associated with decreased survival in older Seychelles warblers](#)

[Rapamycin does not extend lifespan in females of a progeroid mouse model](#)

[Early neuroinflammation is associated with reduced amyloid and tau in cognitively normal older adults](#)

[People living in areas with high background radiation live 2.5 years longer than those in low radiation areas](#)

[Meta-analysis: No sex differences in adult telomere length across vertebrates](#)

Energetics/Nutrition

[Branched-chain amino acid restriction has sex specific effects on frailty and lifespan](#)

[Diacetyl odor reduces the effects of caloric restriction in worms](#)

[Serotonin 2A receptor modulates aging in response to nutrient choice in fruit flies](#)

[Media from yeast grown under caloric restriction increases yeast lifespan on standard media](#)

[High serum folate is associated with decreased mortality](#)

[Review: Is exercise a senolytic medicine? A systematic review](#)

[Review: Fasting and fasting-mimicking diets for chemotherapy augmentation](#)

[Review: Does diet have a therapeutic role in Alzheimer's disease?](#)

Basic Biology

[In vivo gene editing improves health and longevity in a progeroid mouse model](#)

[Inhibition of myeloid EP2 signaling improves cognition in aged mice of undescribed sex](#)

[Senolytic combination reduces gut inflammation and modulates microbiome in aged female mice](#)

[Whole-body senescent cell removal improves cognition in aged male mice](#)

[Transcriptomic profiling of multiple long- and short-lived mutant mouse strains implicates mitochondrial metabolism in aging](#)

[Reduction of steroid sulfatases increases longevity in worms and improves health of an Alzheimer's mouse model](#)

[Increased hydrogen sulfide ameliorates cognitive deficits in males of an Alzheimer's mouse model](#)

[Ribosomal and proteosomal protein turnover increases with fly age , while global protein turnover decreases](#)

[Review: Senescent cells as promising targets to tackle age-related diseases](#)

[Review: Gut microbiota and aging](#)

[More microbiome: Review: Gut dysbiosis and unhealthy aging](#)

[Even more microbiome: Review: The gut microbiome, nervous system and aging](#)

[Dysregulated proline catabolism can drive sperm aging in worms](#)

[Review: Metabolism,_proteostasis, and aging](#)

[Review: Whole blood metabolomics in aging research](#)

[Review: Epigenetics of aging and aging-associated diseases](#)

[Review: Aging and proteostasis decline: From nematodes to humans](#)

[Review: Mouse models of reduced growth hormone activity and extended lifespan](#)

[Review: Telomeres: History, health, and hallmarks of aging](#)

Ecology & Evolution

[Protagonistic pleiotropy? Early reproducing female elephant seals show increased survival](#)

[Survival and reproductive senescence of superb fairy-wrens](#)

[Complex longevity effects of altered male mouse reproduction.](#)

[Why tropical birds live longer](#)

Novel Organisms/ Comparative

[Red-tailed phascogales as a model of aging](#)

[Aged pinnipeds mimic aspects of Alzheimer's disease pathology](#)

[Protein turnover kinetics correlate with lifespan across species](#)

[Variation in beta-amyloid deposition in the brains of aged dogs](#)

[Review: The great pond snail as a model of aging and cognitive decline](#)

[Review: Replicative aging in pathogenic fungi](#)

[Comment: Naked mole-rats as aging models](#)

COVID-19 and aging

[Treatment of COVID-19 with convalescent plasma reduces mortality in younger, but not older adults](#)

Epidemiology/Demography

[Novel biological health score predicts all-cause and disease-specific mortality](#)

[High school class rank, controlling for IQ, is a predictor of survival beyond age 55](#)

[Women sleep better than men, peak difference in late 40's](#)

Clinical

[Diabetes and also prediabetes are associated with functional physical decline in older adults](#)

[Review: Xeroderma pigmentosum as a model for premature aging](#)

[Review: Clinical perspectives and concerns of metformin as an anti-aging drug](#)

[Review: Sarcopenia and muscle aging](#)

Care-giving

[Caregivers of dementia patients who exercise report lower levels of distress and apathy](#)

[Male caregivers of dementia patients are less likely to access available support services](#)

Policy/Ethics

[Improving policy to meet the needs of unpaid caregivers](#)

[The COVID-19 pandemic and older adults: Institutionalized agism or pragmatic policy?](#)

Commentary

[The dual pandemic of COVID-19 and systemic inequalities in US Latino communities](#)

Odd and Ends

[Childhood exposure to extreme droughts is associated with shortened lifespan in](#)

[Chinese elites](#)

[Novel method to measure color and contrast vision in aged and Alzheimer's disease mouse models](#)

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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