

AGING BIOLOGY UPDATE

BROUGHT TO YOU BY THE
UAB NATHAN SHOCK CENTER OF EXCELLENCE
IN THE BASIC BIOLOGY OF AGING

Featured

[Repeated signatures of positive selection on longevity genes across 88 rockfish species](#)

Headline vs Study

Headline: [You are what you eat: Healthy diet tops drugs when it comes to anti-aging benefits](#)

Study: [Nutritional reprogramming of mouse liver proteome is dampened by metformin, resveratrol, and rapamycin](#)

Headline: [Some people just don't age, at least not like most](#)

Study: [Greater neural differentiation in the ventral visual cortex is associated with youthful memory in superaging](#)

Contrary or Null Findings

[Short cycles of very low caloric intake does not prevent obesity in male mice on a high fat diet](#)

Energetics/Nutrition

[Caloric restriction but not a ketogenic diet can slow tumor progression in mice](#)

[Genotype and sex specific effects of dietary restriction in inbred mice: Lack of reproducibility from earlier studies](#)

[Resistance exercise improves learning and memory in aged male rats](#)

[Review: Dietary interventions I: What is the evidence for slowing aging?](#)

[Review: Dietary interventions II: Intermittent fasting in middle-age and older adults: What is the evidence?](#)

[Review: Exercise effectiveness in octogenarians](#)

Basic Biology

[Novel aging omic biomarkers discovered with Mendelian randomization of parental lifespan](#)

[Necroptosis contributes to age-related inflammation and fibrosis in livers of male mice](#)

[Citrate supplementation increases lifespan in fruit flies](#)

[The senolytic dasatinib may have antidiabetic properties](#)

[Metformin enhances health and lengthens life in some worms but not others](#)

[Growth hormone disruption in adult mice leads to improved male health and increased female longevity](#)

[Klotho overexpression preserves kidney function in mice of unreported sex](#)

[New tool for the study of neurodegenerative diseases](#)

[Review: Small procedural differences account for substantial differences in worm lifespan across laboratories](#)

[Review: Role of environmentally produced extracellular vesicles on aging and age-related disease](#)

[Review: New directions in aging research](#)

[Review: Cytoplasmic DNA, aging, and disease](#)

[Review: Macroautophagy and aging of the nervous system](#)

[Review: Blood-based biomarkers of Alzheimer's disease](#)

Ecology & Evolution

[Evolution of natural lifespan variation in yeast](#)

[Mitonuclear interactions alter sex-specific longevity in a copepod](#)

[Human females produce stronger self-protective reactions than males](#)

[Wild salamanders may live twice as long as previous estimates from size alone](#)

[Review: Lifespan extension in long-lived vertebrates rooted in ecological adaptation](#)

Novel Organisms/ Comparative

[Female marmosets show age-related cognitive decline earlier than males](#)

[Longevity is associated with brain size in zoo parrots](#)

[Genome sequence integrity better preserved in fibroblasts from long-lived versus short-lived rodent species](#)

[Wild Montevideo tree frog males live at least 5 years, reach maturity in 2 years](#)

[Review: Dog models of aging](#)

[Review: Cardiac aging in nonhuman primates](#)

COVID-19 and Aging

[Age-specific impact of COVID-19](#)

[Aged mice and humans have elevated ACE2 levels: insights into severe COVID-19](#)

[Review: COVID-19 and the aging immune system](#)

Epidemiology/Demography

[Can people born in the 21st century really expect to live 100 years?](#)

[Women who breastfeed exhibit cognitive benefits after age 50](#)

[Aspirin use is associated with increased risk of heart failure in at risk patients](#)

[Premature cognitive aging in young veterans who suffered mild traumatic brain injury](#)

[Women with a history of irregular menstrual cycles show increased risk of heart disease and diabetes in later age](#)

Clinical

[Short exposure to red light improves color contrast eye sight in middle and older age adults](#)

[A trial to determine if senolytics are effective for COVID-19 in skilled nursing facilities](#)

Care-giving

[Informal indigenous caregivers of dementia patients may provide new models of caregiving](#)

Policy/Ethics

[Ethical consideration of allowing patients with dementia to be included in research studies](#)

[Review: Transport and mobility needs for an aging society from a policy perspective](#)

[Perspective: How urban nature can enhance health](#)

Commentary

[The active grandparent hypothesis: Physical activity and the evolution of extended human healthspans and lifespans](#)

[As we live longer, how should life change?](#)

[We need to better prepare for an aging America](#)

Odd and Ends

[Forever young: CBS "Sunday Morning" Special](#)

[Royal Society presidents live longer than other high-ranking members of British society](#)

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.](#)



NATHAN SHOCK CENTERS
OF EXCELLENCE IN THE
BASIC BIOLOGY OF AGING



Copyright © 2021 The University of Alabama at Birmingham, All rights reserved.
1701 2nd Ave S, Birmingham, AL, 35294 US

[Privacy Policy](#) | [Terms of Use](#) | [uab.edu](#)