

AGING BIOLOGY UPDATE

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

Featured

[The New York Times weighs in: how long can we live?](#)

Headline vs Study

Headline: [Drinking this juice could help promote healthy aging, scientists find](#)

Study: [Network analysis of nitrate-sensitive oral microbiome reveals interactions with cognitive function and cardiovascular health across dietary interventions](#)

Contrary or Null Findings

[Educational attainment does not influence brain aging.](#)

[No autosomal genetic sex differences in Parkinson's disease](#)

[Decline in IGF1 cause hematopoietic stem cell aging in mice](#)

[No association of polyunsaturated fatty acid ratios and longevity across bird species](#)

Energetics/Nutrition

[Reducing isoleucine or valine, but not leucine, promotes metabolic health in mice](#)

[Inverse relation between protein consumption amount and rate of walking speed decline with age in older adults](#)

[Review: Lipid metabolism and lipid signals in aging and longevity](#)

[Review: Mitochondrial protonmotive force and aging](#)

Basic Biology

[Skeletal muscle transcriptome changes with age in humans](#)

[Functional and metabolic changes during aging in male C57BL/6N mice](#)

[Comprehensive characterization of tissue-specific transcriptome changes with age in both sexes of C57BL/6JN mice](#)

[Enhancing chaperone mediated autophagy improves pathology in mouse models of Alzheimer's](#)

[Spermidine supplementation improves cognitive function in flies and mice, possibly in humans](#)

[Inactivating histone deacetylase HDA increases longevity in yeast, worms, and flies](#)

[Antibiotics perturb gut microbiota recovery in adolescent and mature adult female C57BL/6 mice](#)

[Chromatin changes with age in the mouse epidermis](#)

[Age and sex are associated with the human plasma lipidome](#)

[Stem cell aging detected in early adulthood in the hippocampus of mice of undetermined sex](#)

[Male but not female mice show neural stem cell declines with age in the ventricular-subventricular zone](#)

[Aging-dependent regulatory cells in subcutaneous fat inhibit adipogenesis in male mice](#)

[Skeletal muscle proteasome stress can cause improve proteostasis and slow aging in the fly central nervous system](#)

[Metabolites linked to midlife cognition are causal candidates in Alzheimer's disease](#)

[Complex impact of Klotho on hallmarks of aging](#)

[Rapamycin supplemented in late mid-life delays age-related hearing loss in mice](#)

[Hypoxia suppresses the senescence associated secretory phenotype in human cells and tissues of unknown sex mice.](#)

[A novel Alzheimer's mouse model with human A \$\beta\$ controlled by mouse regulatory elements](#)

[Muscle-specific loss of UBR4 rescues age-associated muscle atrophy but not muscle strength or protein quality in male mice](#)

[Review: Transcriptomics of cellular senescence](#)

[Review: mTOR as a senescence manipulation target](#)

[Review: Metabolomics signatures of aging](#)

[Review: The aging gut microbiome and its impact on host immunity](#)

Ecology & Evolution

[Worker paper wasps infected with a parasite live longer than those uninfected](#)

Novel Organisms/ Comparative

[High social status male baboons have accelerated epigenetic aging](#)

[Age is associated with serum, but not fecal, metabolites in giant pandas](#)

[Long-lived termite kings and queens upregulate telomerase](#)

[Vascular aging in an invertebrate chordate](#)

[Changes in grey matter in the chimpanzee brain with age](#)

[Novel features of aging in the migratory locust](#)

[Heritable variation in telomere length predicts mortality in Soay sheep](#)

[Changes in gene expression with age in the deer mouse brain](#)

[Review: Teleost fish as models of age-related neuroregeneration](#)

Epidemiology/Demography

[Short sleep duration in midlife is associated with increased risk of late onset dementia](#)

[Earlier age at menarche is associated with increased risk of cancer in mid-life](#)

COVID-19 and Aging

[Dementia enhances COVID-19 severity and death risk independent of age](#)

[Using frailty for prognostication in hospitalized COVID-19 patients](#)

[Endocrine aspects of vulnerability to COVID-19](#)

Clinical

[HIV and Hepatitis C infection share features with chronic inflammation and aging.](#)

[Orthostatic blood pressure recovery fails to predict falls in geriatric outpatients](#)

[Review: Trends in geriatric emergency medicine](#)

[Review: The aging lung: Physiology, disease, and immunity](#)

Care-giving

[Discordance between caregivers' goal of care and preference for life-extending treatments](#)

[Review: Use of technology and social media in dementia care](#)

Policy/Ethics

[Aging and immigration status](#)

[Prevalence of abuse towards older men](#)

[Declining life expectancy in the United States: What to do?](#)

Commentary

[Towards a multidisciplinary science of aging biology](#)

[The best remedy for our diseases? Aging less](#)

Odd and Ends

[How long do seabirds live?](#)

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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