

AGING BIOLOGY UPDATE

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

Featured

[Variation in aging rates in dolphins](#)

[Ovariectomy increases lifespan of female mice](#)

[Long life evolves in large brained bird lineages](#)

Headline vs study

Headline: [Generosity can make us live longer, new research shows. Now that's more important than ever](#)

Study: [Intergenerational resource sharing and mortality in a global perspective](#)

Contrary or Null Findings

[No association between telomere length and Parkinson's disease](#)

[No difference in pathogenic coding variants in "normal" agers and the exceptionally long-lived](#)

[Meta-analysis: No evidence that ACE inhibitors or angiotensin receptor blockers improve physical health in older adults](#)

Energetics/Nutrition

[Crosstalk between glucose and methionine metabolism in yeast longevity](#)

[Meta-analysis: Calorie restriction and health in humans](#)

[Review: Fasting, dietary restriction, and immunosenescence](#)

[Review: Relationship between diet, microbiota, and healthy aging](#)

Basic Biology

[Inhibition of Cdc42 extends lifespan of female mice](#)

[Gluconeogenesis and PEPCK are critical components of healthy worm aging](#)

[A mitochondrial stress specific form of HSF1 protects against age-related proteostasis collapse](#)

[Alpha-ketoglutarate supplementation extends lifespan in female but not male mice](#)

[Plasma proteomic profile of frailty](#)

[Kynurenines may mediate chronic inflammation to reduce motor function](#)

[A second X chromosome contributes to resilience in a mouse model of Alzheimer's disease](#)

[17-alpha-estradiol upregulates IGF-I in male, but not female mice](#)

[Sex-specific effects of mouse cardiac aging and association with frailty](#)

[SIRT7 activate quiescent mouse hair follicle stem cells](#)

[Perturbations in circadian clock, metabolism, and thermogenesis in accelerated aging mouse model](#)

[Estrogen supplementation during menopause may reduce some markers of cell senescence](#)

[Senolytics promote the survival of aged mouse organs following transplantation](#)

[Using genetically diverse mice to determine molecular pathways associated with Alzheimer's disease](#)

[Review: Mitochondrial pathways in human health and aging](#)

[Review: Mouse models of cellular senescence](#)

[Reviews: Cell senescence and cancer, neurodegenerative diseases, and age-associated diseases](#)

[Review: Social hallmarks of aging: Suggestions for geroscience research](#)

[Review: The microbiome in aging and longevity](#)

[Review: Animal models of sarcopenia](#)

[Review: Mitochondrial omic techniques and the aging immune system](#)

Ecology & Evolution

[Resolving Peto's paradox: A role of increased genetic control of cancers in large, long-lived species](#)

[Diversity of maternal-age effects on pre-adult survival across animal species](#)

[Review: Genetic damage, life-history traits, and aging in carcinogenesis](#)

[Review: Parental age and offspring lifespan](#)

Novel Organisms/Comparative

[Lifespan estimation in marine turtles using genomic promotor CpG density](#)

[Disease resistance in long-lived little brown bats](#)

[Positive correlation between duration of hibernation season and longevity across mammals](#)

[Sphingomyelins are lower in small, long-lived dogs](#)

[More dogs: Changes in the gut microbiome with age](#)

[Downregulation of wnt signaling in aging degu brains](#)

[Comparison of Tibetan macaque and human aging blood transcriptome](#)

[Review: Pathology of diseases of geriatric exotic mammals](#)

[Review: Geriatric freshwater and marine fish](#)

[Review: Aging in long-lived trees](#)

[Review: Climate change and aging in ectotherms](#)

Epidemiology/Demography

[U.S. Olympic athletes live 5 years longer on average than the general population](#)

[Interaction of poverty and GDF15 on mortality](#)

[Analysis of black-white health disparity in Washington D.C.](#)

[Effects of extreme heat and cold on mortality in England](#)

[Diabetes has a greater negative effect on lifespan in the South than the rest of the United States](#)

Clinical

[Review: Sex and gender: Modifiers of health, disease, and medicine](#)

[Review: Status and future directions of clinical trials in Alzheimer's disease](#)

[Review: Omics biomarkers of frailty in older adults](#)

[Review: Premature aging disorders](#)

Care-giving

[Black dementia caregivers are less likely to use respite care than white caregivers](#)

[Caregivers, especially female caregivers, are at increased risk of poor health behaviors](#)

Policy/Ethics

[Reducing health inequalities in aging through policy frameworks and interventions](#)

Commentary

[Arlan Richardson: A Perspective from five decades of biology of aging research](#)

[COVID-19 infection in older adults: A geriatrician's perspective](#)

Odd and Ends

[Maintaining a scientific community while social distancing](#)

[Remote but not isolated](#)

[Companion animals may be infected but likely do not spread COVID-19](#)

[New resource: Gene modules of worm gene expression data](#)

[Novel method for measuring age-related protein aggregation in worms](#)

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



Copyright © 2020 The University of Alabama at Birmingham, All rights reserved.
1701 2nd Ave S, Birmingham, AL, 35294 US

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