

AGING BIOLOGY UPDATE

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

Featured

[Cellular reprogramming restores youthful epigenome and vision in mice](#)

[Modeling the human aging transcriptome across tissues, health status, and sex](#)

Headline vs Study

Headline: [Deep Longevity publishes an epigenetic aging clock of unprecedented accuracy](#)

Study: [DeepMAge: A methylation aging clock developed with deep learning](#)

Contrary or Null Findings

[Higher childhood cognitive ability, independent of socioeconomic status, is associated with lower mortality risk in late life](#)

[Circulating fibroblast growth factor 23 is not associated with cognitive impairments in older adults](#)

[Low dose aspirin does not reduce the risk of activities of daily living disability](#)

[No difference in environmental factors between normal and superagers in Argentina](#)

Energetics/Nutrition

[A Mediterranean diet improves age-related declines in stress resilience in female cynomolgus monkeys](#)

[Review: Personalized nutrition and healthy aging](#)

[Review: Age-related changes in the gut microbiome, chronic diseases, and elderly-specific dietary interventions](#)

[Review: Does caloric restriction improve cognition?](#)

[Review: Beyond calorie restriction: Aging as a biological target for nutrient therapies](#)

Basic Biology

[mGluR5 inhibition improves cognitive function only in male Alzheimer's mouse model](#)

[ISRIB injections improve cognitive function in aged mice](#)

[Estrogen receptor alpha mediates health benefits of 17alpha-estradiol](#)

[More estradiol: 17alpha-estradiol prevents ovariectomy-mediated obesity and bone loss](#)

[in mice](#)

[Tissue specific transcriptome changes with age in male mice](#)

[Klotho supplementation improves cardiac function in aged mice](#)

[Regulation of hematopoietic stem cell division patterns change with mouse age](#)

[Review: Hallmarks of health](#)

[Review: Cell non-autonomous regulation of health and longevity](#)

[Review: Decline in biological resilience as a key manifestation of aging](#)

[Review: Cellular senescence in aging](#)

[Review: NAD+ metabolism and aging](#)

[Review: Innate and adaptive immunity in aging and longevity](#)

[Review: Mitochondrial copy number in human disease: The more the better?](#)

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

[Review: Aging and mitochondrial dysfunction](#)

[Review: Mitophagy in Alzheimer's disease](#)

[Review: Circadian clock regulation of skin regeneration in stem cell aging](#)

Ecology & Evolution

[Maximum longevity of at least 33 years in the Arctic skua seabird](#)

[Genome of cold-water corals indicates evolution of longevity gene families](#)

Novel Organisms/ Comparative

[The unfolded protein response in aging deer mice](#)

[Proteome turnover rate in cultured fibroblasts negatively correlates with mammalian species lifespan](#)

[A geropathology grading platform for nonhuman primates](#)

[Variation in telomere attrition with aging across African mole rat species](#)

[Review: Aging and longevity in trees](#)

[Early life adversity shortens wild baboon life but does not accelerate reproduction](#)

[Exceptional maximum longevity variation among Pyrenean newt populations](#)

COVID-19 and aging

[Sex differences in immune responses underlie COVID-19 disease outcomes](#)

[What can we learn about psychological aging by studying COVID-19?](#)

[Metformin treatment in COVID-19 patients with type 2 diabetes?](#)

[How age affects knowledge, guideline compliance, and emotions in COVID-19 pandemic](#)

[Vitamin D and COVID-19 in older age: what does the evidence show?](#)

[Age and excess deaths in US COVID-19 pandemic: March to August](#)

Epidemiology/Demography

[Blood lipids and cognitive performance of aging Polish adults](#)

[Long-term health impact of troubled family life](#)

Clinical

[Review: The rocky road for repurposed drugs to fight aging](#)

[Review: Aging, frailty, and the microbiome](#)

Care-giving

[Family caregiver assessment in primary care: How to strengthen the health care triad?](#)

Policy/Ethics

[Healthy aging: the importance of place](#)

Commentary

[The importance of valuing later life: Lessons from COVID-19](#)

[Improving pandemic research for older people](#)

Odd and Ends

[Decreasing tree longevity with increasing global temperature](#)

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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