

AGING BIOLOGY UPDATE

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

Featured: COVID-19 and Aging

[Geroscience and the coronavirus pandemic](#)

[A geroscience perspective on COVID-19 mortality](#)

[The dilemma of COVID-19, aging, and cardiovascular disease](#)

[COVID-19 in older adults: Expectations on pathogenesis, immune responses, and outcomes](#)

Headline vs Study

[Headline: Molecules identified that reverse cellular aging process](#)

[Study: Small-molecule PAPD5 inhibitors restore telomerase activity in patient stem cells](#)

[Headline: Natural compound may support healthy aging](#)

[Study: Sirtuins transduce STACs signals through steroid hormone receptors](#)

Contrary or Null Findings

[Randomized clinical trial: L-dopa does not improve learning under cognitive training in older adults](#)

[Genetic variation in the angiotensin-converting enzyme is not associated with longevity in a Peruvian population](#)

[Caloric restriction decreases bone quality in aging rats](#)

Energetics/Nutrition

[Probiotic cocktail derived from human infants prevents metabolic and physical dysfunction in old mice fed high-fat diet](#)

[Lifestyle mediates the role of nutrient sensing pathways in cognitive aging](#)

[Early changes in sugar metabolism in Alzheimer's disease brain](#)

[Review: Metformin attenuates multiple hallmarks of aging](#)

[Review: Ketogenic diets and Alzheimer's disease](#)

[Review: SIRT1 regulation in aging and obesity](#)

Basic Biology

[Mitochondrial translation and dynamics extend lifespan in worms](#)

[The Y chromosome may contribute to sex-specific aging in Drosophila](#)

[Elimination of senescent cells via a prodrug improves health in old mice](#)

[Loss of circadian clock genes extends life in male fruit flies only](#)

[Genetic association between longevity and male age at puberty](#)

[Rare damaging genetic variants account for 0.4-1.3 years of lost life and health](#)

[Aged mice exhibit severe exacerbations of dry eye disease](#)

[Blocking LRP1 stops spread of tau in mouse brains](#)

[Computer simulations find that shorter life and reduced fecundity can increase *C. elegans* colony fitness](#)

[Loss of individual heterochromatic histone methyltransferase genes fails to affect hematopoietic aging](#)

[Moderation of mitochondrial respiration mitigates metabolic syndrome of aging](#)

[Review: Age related human proteomics changes and a novel proteomics clock](#)

[Estrogen impact on germline stem cells differentiation contributes to female reproductive aging](#)

[Review: Current perspectives on the cellular and molecular features of epigenetic aging](#)

[Review: Aging clocks and biomarkers of aging](#)

[Review: Insights from in vivo studies of cellular senescence](#)

[New book: Reviews on new drug targets in age-related disorders](#)

Ecology & Evolution

[Perceived predation risk fails to affect *Daphnia* aging.](#)

[Review: Evolutionary conservation of transcription factors affecting longevity](#)

[Review: The exposome in human evolution: Implications for inflammation and longevity](#)

Novel Organisms/Comparative

[Wild chimpanzees exhibit humanlike aging of glucocorticoid regulation](#)

[Immune system aging in the common marmoset](#)

[FGF21 replenishment increases lifespan in female but not male silkworms](#)

[Review: Zebrafish models of sarcopenia](#)

[Review: Aging in clonal animals](#)

Epidemiology/Demography

[Healthy aging may lengthen life in HIV-infected patients](#)

[A global metric for quality of life](#)

[Increasing global heterogeneity in life expectancy at older ages](#)

Clinical

[Age modifies the cognitive effects of statins](#)

[Mortality in the oldest-old increases with longer sleep duration independent of other health conditions](#)

[Premature menopause and postmenopausal hormone treatment associated with increased risk for depression](#)

[Handgrip strength asymmetry informative about functional disability](#)

Care-giving

[Informal caregivers have poorer cognitive performance compared to non-caregivers independent of stress level](#)

[Two thirds of family caregivers report moderate or severe loneliness](#)

Policy/Ethics

[How are employers responding to an aging workforce?](#)

[Developing future public health leaders trained in long-term care administration](#)

Odd and Ends

[Music Making and Neuropsychological Aging: A Review](#)



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