

AGING BIOLOGY UPDATE

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

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[Sex differences in optimal nutrition for longevity in fruit flies](#)

[Sex differences in human immune system aging](#)

Headline vs study

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[Headline: Researchers discover new cellular mechanism related to aging and chronic illnesses](#)

[Study: Control of protein function through oxidation and reduction of persulfidated states](#)

[Headline: Consuming this condiment after exercise slows aging](#)

[Study: Lipid droplet-derived monounsaturated fatty acids traffic via PLIN5 to allosterically activate SIRT1](#)

[Headline: Unhealthy aging could be thwarted in the future by new molecular discovery](#)

[Study: Two conserved epigenetic regulators prevent healthy ageing](#)

Contrary or Null Findings

[Few changes in the gut microbiome of rhesus macaques with age](#)

Energetics/Nutrition

[One-year Mediterranean diet intervention improves older people's gut microbiome](#)

[High intensity interval training reduces inflammation more than moderate intensity continuous training in aged female rats](#)

[Review: Metabolic adaptation to calorie restriction in humans](#)

[Review: Obesity and aging: Two sides of the same coin](#)

Basic Biology

[Reducing hypothalamic stem cell senescence protects against aging-associated physiological decline in male mice](#)

[Transcriptomic differences between healthy and normal aging in humans](#)

[Overexpression of a small nucleolar RNA extends life in flies](#)

[Using atomic force microscopy to measure healthspan in worms](#)

[NAD+ repletion rescues fertility in older female mice](#)

[Statin supplementation increase health and lifespan in worms](#)

[Mitochondrial metabolism is differently regulated and sex matters in wild-type vs growth hormone releasing hormone knockout mice](#)

[Review: Pedomorphy and prolonged lifespan in naked mole-rats and dwarf mice](#)

[Review: The aryl hydrocarbon receptor and aging](#)

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Ecology & Evolution

[Combining maximum longevity, annual survival, and age at first breeding to estimate extinction risks in birds](#)

[Older mother yellow bellied marmots produce daughters with greater reproductive success](#)

[Sons accelerate maternal aging in bighorn sheep](#)

[Evolutionary constraint of molecular pathways correlates with longevity across species](#)

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[Premature mortality related to United States cross-state air pollution](#)

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[Later or more severe hot flashes linked to accelerated epigenetic aging](#)

[Older HIV-infected women experience lower quality of life than age-matched HIV-infected men](#)

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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.](#)



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