

AGING BIOLOGY UPDATE

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

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[*Semelparous C. elegans?* Accelerated aging by self-destructive reproduction](#)

[Low-dose klotho injection enhances cognition in aged nonhuman primates](#)

[Heterochronic parabiosis improves health and lifespan post detachment](#)

Contrary or Null Findings

[Most spontaneous mutations do not contribute to damage accumulation and aging in *Drosophila*](#)

[The Acute Frailty Network did not improve outcomes for older people living with frailty](#)

[Deprescribing not found to reduce mortality](#)

[Loss of methionine sulfoxide reductase A \(MsrA\) has minimal effects on murine longevity and health span during methionine restriction](#)

[Dietary restriction during postnatal period in a long-lived seabird does not affect oxidative stress or telomeres](#)

[After one year, no difference in weight loss between calorie restriction and time-restricted eating](#)

[Combined aerobic training and Mediterranean diet not associated with reduced sarcopenia in older Italians](#)

[Estrogen treatment does not increase physical activity among postmenopausal women](#)

Energetics/Nutrition

[MIND diet does not reduce risk of cognitive decline in older people](#)

[Caloric restriction \(CR\) combined with time-restricted food availability confers greater benefits than pure CR in adult female mice](#)

[Impact of graded calorie restriction on protein expression in the livers of male mice](#)

[Acarbose improves survival and suppresses symptoms in a mouse model of Leigh syndrome](#)

[Dietary restriction mitigates age-associated decline B cell receptor repertoire diversity in female C3B6F1 mice](#)

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Basic Biology

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[Aging and cancer share a common epigenetic replication signature](#)

[Interventions extending lifespan induce consistent patterns of fatty acid oxidation in mouse livers](#)

[Chemosensory cues from pathogenic bacteria extend lifespan in *C. elegans*](#)

[In naked mole-rats, senescent cells die rather than persist](#)

[Sex differences in brain inflammation in young and older mice](#)

[The aging rat ovary impairs acute stroke outcomes](#)

[XPO7 positively regulates cellular senescence in culture assays](#)

[HPK-1 preserves worm neuronal integrity, function, and proteostasis during aging](#)

[Biphasic JNK-Erk signaling separates induction and maintenance of cell senescence](#)

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Preprint: [Conserved traits influence lifespan and healthspan responses to dietary restriction](#)

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[Descendants of long-lived ancestors have extended healthspan](#)

[Selection bias may mask racial/ethnic disparities in the timing of menopause](#)

[Weakness associated with sex-specific intramuscular changes in adults over 75](#)

Preprint: [Sexual differences in angiogenesis markers predict human brain aging trajectories](#)

[Lipidomic correlates of epigenetic aging across the adult lifespan](#)

[Adding even 10 minutes per day of moderate to vigorous activity reduces mortality](#)

[Protective effect of familial longevity persists after age 100 among Danish elders](#)

[Suffrage laws are associated with increased state life expectancies in the US, the effect greater for blacks](#)

Preprint: [Low systolic blood pressure is correlated with longevity among older women](#)

[Mortality risk reduced by 15% among older, Norwegian male endurance athletes](#)

[Premature menopause linked to shorter leukocyte telomere length and elevated risk of coronary artery disease](#)

[APOE4 associated with depression and anxiety as well as Alzheimer's in an older Hispanic population](#)

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[Older women have higher rate of potentially inappropriate medication prescriptions than older men](#)

[Resistance training alters aging skin in Japanese women](#)

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[ROS are evolutionary conserved cell-to-cell stress signals](#)

[Genetic selection signature of mammalian longevity identified in transcriptomic analysis](#)

[Towards a unified model of development, aging, and cancer](#)

[Brain structure associated with the division of labor and aging in the termite *Reticulitermes speratus*](#)

Novel Organisms/Ecology

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[Increased reproductive rate shortens life and alters gene expression in eusocial bumblebee queens](#)

[Early-life telomere length associated with reproductive senescence in a threatened songbird](#)

[Early breeding hastens reproductive senescence in wild Soay sheep](#)

[Body mass, not lifespan, correlates with immortalization probability in mammalian cell culture strains](#)

[Mongrels live longer than cross-bred dogs, cross-breeds live longer than pure breeds](#)

[Dietary restriction extends lifespan in the wolf spider, *Pardosa pseudoannulata*](#)

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Aging Biology Update is brought to you by the UAB Nathan Shock Center and compiled by Kathleen Fischer, Jessica Hoffman, Heather Patterson, and Steven Austad.

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