

# **AGING BIOLOGY UPDATE**

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

## **Featured: COVID-19 and Aging**

[COVID-19 is a disease of older people](#)

[COVID-19 and ACE inhibitors](#)

[MedRxiv: Projecting COVID-19 hospital use and deaths by US state over the next four months](#)

[How to protect older people from the coronavirus](#)

[Preventing the spread of COVID-19 to nursing homes: Experience from a Singapore geriatric center](#)

[Editorial: Cancer research and COVID-19](#)

[When coronavirus closes your lab, can science go on?](#)

## **Contrary or Null Findings**

[Rapamycin shortens lifespan in telomerase deficient mice](#)

[High blood pressure is associated with decreased risk of mortality in adults over 85](#)

[No association of telomere length and age in a long-lived bat species](#)

[Delayed mating does not increase lifespan in a monandrous moth](#)

[Annual mammograms do not improve breast cancer death risk in women over 75](#)

[Randomized controlled trial: Aspirin does not reduce dementia risk](#)

[Review: Potential adverse effects of resveratrol](#)

## **Energetics/Nutrition**

[CBD during development lowers middle-age mortality in zebrafish](#)

[Single-cell transcriptomics reveals greater impact of caloric restriction on male compared to female outbred rats](#)

[Calorie restriction and time-restricted feeding have similar metabolic effects in male mice](#)

[Smell regulates fat metabolism in \*C. elegans\*](#)

[High fruit consumption is associated with decreased risk of sarcopenia in women only](#)

## **Basic Biology**

[Nuclear reprogramming factors reduce measures of cellular aging](#)

[Tissue-specific effects of aging on protein redox regulation in male mice](#)

[Adjusting for age improves identification of microbiome alterations in multiple diseases](#)

[NoxO1 deficiency extends lifespan in male mice](#)

[A parasitic worm secretion promotes health- and lifespan in high fat diet fed mice](#)

[Growth hormone receptor knockout mice are long-lived even at thermal neutrality](#)

[Measuring phosphorylated tau18 in blood to detect and diagnose Alzheimer's disease](#)

[Fruit flies raised on high sucrose diets with ad lib water access have normal survival](#)

[Metabolomics imply greater impairment of mitochondrial metabolism in female as compared to male Alzheimer's sufferers](#)

[Bacteria supplementation influence fruit fly lifespan](#)

[Inhibiting apoptosis extends lifespan and improves health in female fruit flies](#)

[Sick, short-lived doxorubicin-treated mice had improved health after treatment with aspirin](#)

[Review: Cellular senescence in aging and endocrine disease](#)

[Review: Senescence in post-mitotic cells as a driver of aging](#)

[Review: Aging biomarkers: From functional tests to multi-omics approaches](#)

[New Book: Clinical and preclinical models for maximizing healthspan](#)

## **Ecology & Evolution**

[Evolutionary perspectives on the developing skeleton and osteoporosis](#)

## **Novel Organisms/ Comparative**

[Across species, the homogametic sex averages 17.6% longer life](#)

[More sex differences: Sex differences and rates of aging in wild mammals](#)

[Modeling Parkinson's disease in marmoset embryonic and induced pluripotent stem cells with CRISPR/Cas-9](#)

[Proteomics of the aging rabbit liver](#)

### **Epidemiology/Demography**

[Life expectancy at age 50 is 14% shorter for former prisoners than those never incarcerated](#)

[Gains in overall life expectancy have been driven by improvements in both ill and healthy individuals](#)

[Women who work \(part or full time\) have better cognition scores later in life than those who do unpaid activities](#)

### **Clinical**

[Combining cognitive markers can predict individuals at risk of developing dementia](#)

[Medical students improve competence in diagnosing and managing frailty after a geriatric medicine course](#)

[Face discrimination as a test for early detection of dementia in Parkinson's disease?](#)

[Frequent contact with friends, but not family, is associated with improved cognitive function in older adults](#)

### **Care-giving**

[Technology and caregiving: Emerging interventions and directions for research](#)

### **Policy/Ethics**

[The politics of frailty](#)

[Aging and longevity in the UK needs more funding and research](#)

### **Commentary**

[Letter to the editor: When surgeon age becomes a surgical risk factor](#)

[Predicting longevity using metabolomics?](#)

### **Odd and Ends**

[Is aging a disease?](#)

[Guidelines for animal exercise and training protocols for cardiovascular studies](#)

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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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