

AGING BIOLOGY UPDATE

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

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Featured

[Ketogenic diet induces p53-dependent cellular senescence in multiple organs in mice and serum senescence markers in people](#)

[Accumulating stochastic variation in purely simulated data is sufficient to build aging clocks](#)

[Killifish germline depletion affects wound repair and longevity in a sex-specific fashion](#)

Basic Biology

[Quantification of healthspan in aging mice: introducing FAMY and GRAIL](#)

[Sexually antagonistic effects of 16-hydroxyestriol and late-start canagliflozin on ITP mouse longevity](#)

[Epigenetic aging from a single-cell perspective](#)

[Lifelong persistence of nuclear RNAs in the mouse brain](#)

[A lipidome landscape of aging in mice](#)

[Aging atlas reveals cell-type-specific effects of worm longevity increasing genetic mutations](#)

[Mice stressed by cold \(22°C\) laboratory conditions have three-fold higher gut transit time than unstressed mice maintained at thermal neutral temperature \(30°C\)](#)

[Uncharacterized yeast gene YBR238C, an effector of TORC1 signaling accelerates cellular aging via mitochondrial dysfunction](#)

[Energetic cost of biosynthesis: a missing link between growth and longevity in mammals?](#)

[Male-specific behavioral and transcriptomic changes in aging worm neurons](#)

[Gonadal sex, sex steroids and sex chromosomes influence mouse cardiac aging](#)

[Single-cell and single-nucleus muscle atlas of aging](#)

[Polr3b heterozygosity in mice affects health, but not lifespan, in a sex and organ specific manner](#)

[Human white matter trajectories over the lifespan](#)

[Temporal coherence of circadian metabolome across tissues disrupted in aging male mice](#)

[Human telomere length is chromosome end-specific](#)

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Review: [Mitophagy in aging, health and disease](#)

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Contrary or Null Findings

[Dietary restriction fails to extend lifespan of Drosophila model of Werner syndrome](#)

[Elders \(> 80\) with broken wrists have a lower mortality rate than age- and gender-matched controls](#)

[RCT finds no impact on grip strength of increased protein intake in older adults in a 12-week trial](#)

[Senolytic treatment fails to prevent cognitive decline in a female F344 rats](#)

[Few relationships between alcohol use and brain macrostructure found in older \(70-90\) low-level drinkers](#)

Review: [Deprescribing interventions have no significant impact on reducing Drug Burden Index or improving outcomes](#)

Energetics/Nutrition

[Counting steps instead of counting minutes for healthy longevity](#)

[Diet correlated with DunedinPACE epigenetic clock age and risk of dementia](#)

[Food insecurity and epigenetic aging in middle-aged and older adults](#)

[Time-restricted feeding improves aortic endothelial relaxation in aged mice](#)

[Complex lipid signature marks human muscle aging and responds to short-term exercise](#)

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Epidemiology/Demography

[Infertility associated with incidence of postmenopausal breast cancer largely through age at first term pregnancy](#)

[Association of race, ethnicity, and socioeconomic status on the severity of menopause symptoms](#)

[Pregnancy complications associated with higher mortality risk >40 years later](#)

[Physical and cognitive function — not age — are key predictors of heart-related mortality](#)

[Systolic blood pressure <130 associated with longevity in older women](#)

[Traditional Mexican diet associated with lower cancer risk among women of Mexican descent](#)

[Unique microRNAs associated with exceptional longevity](#)

[Development and validation of an intrinsic capacity score in the UK Biobank study](#)

[Can retirement be deadly: a demographic analysis](#)

[Transition from low-to-high or high-to-low SES impacts dementia risk more than stable SES category](#)

[Reduced childhood mortality correlated with extended maternal lifespan](#)

[Global Burden of Disease study details greater morbidity for women across the life course, greater mortality for men](#)

[Edible cannabis legalization associated with significantly increased cannabis poisoning in older Canadian adults](#)

Preprint: [Quantifying individual- and population-level differences in rate of aging-related health declines](#)

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[Health advice for postmenopausal women from the Women's Health Initiative trials](#)

[Female and male Medicare patients have lower patient mortality when treated by female physicians](#)

[Antipsychotics use in people with dementia associated with greater risk of adverse outcomes than expected](#)

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[Predictors of mortality shortly after entering a long-term care facility](#)

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Evolution/Comparative

[Are brain size and fidelity of double strand-break repair coevolving?](#)

[Selection for longer life and sex-specific reproductive costs in a 20th century population](#)

[Does effective population size govern evolutionary differences in telomere length?](#)

[Naked mole-rat mortality rates do not increase with age](#)

[Reproduction and post-reproductive lifespan in honeybee workers](#)

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[Nice Japanese quail have longer telomeres and longer lives than nasty quail](#)

[Telomere length is longer following diapause in two solitary bee species](#)

[Maternal age effects on offspring lifespan and reproduction among rotifers](#)

Meeting abstract: [Enhanced DNA damage response in *Myotis* bats](#)

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Resource: [Online tool to help manage neuropsychiatric symptoms of dementia](#)

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[Universal palliative care for healthy longevity](#)

[Changes in Medicare/Medicaid coverage could cost thousands of lives without saving as much money as expected](#)

[Caregivers, unseen, un- or underpaid and overwhelmed](#)

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Commentary

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[Where angels fear: the complexity of cellular senescence](#)

Odd and Ends

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[People who visit senior centers are more likely to get regular health check-ups](#)

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[Medicalization of old age](#)

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