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

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.