**Featured**

**Hyaluronan produced by long lived naked mole rats is cytoprotective**

**Review: Social determinants of health and survival across species**

**Contrary or Null Findings**

**Use of RAAS inhibitors does not increase risk of COVID-19 requiring admission to the hospital**

**High fat diet and time-restricted feeding both ameliorate some age-related phenotypes in female senescence accelerated SAMP8 mice and other mouse genotypes.**

**No causal associations between birth weight and hypertension in adulthood**

**Energetics/Nutrition**

**Proteome changes of the intestinal epithelium during aging and dietary restriction**

**Metformin increases median but not maximum longevity in males only and improves aspects of health in the short-lived killifish, Nothobranchius guentheri**

**Review: Calorie restriction and intermittent fasting on lifespan in model organisms**

**Basic Biology**

**ApoE4 allele is associated with breakdown of the blood brain barrier independent of amyloid-B and tau pathology**

**ApoE4 and ApoE2 alleles display reversed phenotypic effects for melanoma compared with neurodegenerative and cardiovascular disease in humans and genetically modified mice**

**Rapamycin rejuvenates oral health in aging mice**

**Untangling determinants of enhanced health and lifespan through a multi-omics**
approach in mice

Novel method for targeted proteomics in aging mice

Age related changes in the microbiome, metabolome, and immune factors in male Wistar rats

Role of HDAC1 in brain aging and Alzheimer’s disease in male mice

Age related hearing loss in fruit flies

A metabolomic clock of biological aging

Repetitive element transcriptome and aging

Comprehensive analysis of posttranslational protein modifications in aging mouse liver

Novel method for calculating the pace of aging

T cells with dysfunctional mitochondrial induce multimorbidity and accelerated aging in mice

Similar astrocyte transcriptomes appear in Alzheimer’s mice and with advanced age in mice and humans

Oral probiotics producing angiotensin (1-7) improves gut/brain parameters in aged male rats

Review: Mitophagy in aging and disease

Review: Aging and longevity genes in cardiovascular diseases

New book: Aging: Methods and protocols

Ecology & Evolution

Insulin/TOR signaling can mediate longevity differences due to mating

No decrease in longevity with increased mating in a polygamous moth

Parental age effects the evolution of senescence

Use of clinical biomarkers for age predictions works well in young individuals but not old

Review: Muller’s ratchet and aging

Novel Organisms/Comparative

Immunosenescence and its influence on reproduction in the painted turtle

Aging and insulin signaling in termites

Age-related cognitive decline in baboons
A comparative approach to uncover sex differences in Alzheimer’s disease

Novel method for aging male white-tailed deer

Senescence and longevity in sea urchins

Age influences domestic dog cognitive performance independent of breed lifespan

Single-cell transcriptomic landscape of primate arterial aging

Review: Aging and longevity in farm animals

Review: Senescence and longevity of sea urchins

**Epidemiology/Demography**

A novel population aging indicator: Dependency ratios

From 1990-2016 cancer incidence rates increased in all age groups, but cancer mortality rates decreased

Early age of menopause is associated with increased mortality risk in Taiwanese women

**Clinical**

Higher blood uric acid is associated better lung function in older women but not men

Increasing surgeon age, including over age 65, is associated with decreased risk of postoperative adverse outcomes

Review: Cellular senescence in the lung

**Care-giving**

Experiences of black and white caregivers of older Americans

Importance of communication between family caregivers and residents of long-term care facilities during COVID-19

**Policy/Ethics**

Ageism, healthy life expectancy, and population aging: How are they related?

A framework for aging-friendly services and supports in the age of COVID-19

**Commentary**

Ageism and COVID-19: What does our society’s response say about us?

**Odd and Ends**

Application of glucose tolerance tests to small birds

Interpreting what the mirror tells you