
Event Agenda

American Aging Association Annual Meeting

Tuesday, June 02, 2026

7:00 AM - 8:00 AM

Breakfast on Your Own

8:00 AM - 11:00 AM

Nathan Shock Centers Directors Symposium

Location: Cascade A-E (Level 3)

Welcome Remarks

8:00 AM - 8:10 AM

Speaker: Steven Austad

Caenorhabditis Interventions Testing Program

8:10 AM - 8:30 AM

Speaker: Patrick Phillips

Interventions Testing Program

8:30 AM - 8:50 AM

Speaker: Ron Korstanje

Use of Organoids in Aging Research

8:50 AM - 9:10 AM

Speaker: Andreas Stahl

Break

9:10 AM - 9:30 AM

Dog Aging Project

9:30 AM - 9:50 AM

Speaker: Daniel Promislow

Non-Rodent Models

9:50 AM - 10:10 AM

Speaker: Adam Salmon

Roundtable Discussion - How do we move forward to get research findings into clinical trials?

10:10 AM - 11:00 AM

Speakers: Sara Espinoza, John Newman, Steven Austad, Viviana Perez

11:00 AM - 1:00 PM

Lunch on Your Own

1:00 PM - 5:00 PM

A Primer on Geroscience Clinical Trial Design (A how-to guide for moving your geroscience research into clinical trials)

Location: Cascade A-E (Level 3)

Introduction to the Workshop and Goals of Translational Geroscience

1:00 PM - 1:10 PM
Speaker: Iman Al-Naggar

Overcoming Translational Obstacles for Basic Scientists

1:10 PM - 1:30 PM
Speaker: George Kuchel

Repurposing Drugs for Healthspan: Selection Process and Regulatory Challenges

1:30 PM - 2:00 PM
Speaker: Elena Volpi

Dose-Finding Studies for Drug Repurposing

2:00 PM - 2:30 PM

Break

2:30 PM - 2:45 PM

Study Populations and Recruitment Criteria

2:45 PM - 3:15 PM
Speaker: Robert Pignolo

Biomarkers and Outcome Measures

3:15 PM - 3:45 PM

The Translational Geroscience Network

3:45 PM - 4:00 PM
Speaker: James Kirkland

The Geroscience Education and Training Network

4:00 PM - 4:15 PM
Speaker: John Newman

Q&A and Panel Discussion (Challenges?)

4:15 PM - 5:00 PM
Speaker: Brianna Stubbs

5:00 PM - 6:00 PM

Trainee RoundTable

Location: Ballroom AB (Level 2)

6:00 PM - 8:00 PM

Welcome Reception

Location: Timpanogos Terrace (Level 3)

Wednesday, June 03, 2026

7:00 AM - 7:50 AM

Breakfast

Location: Foyer & Cascade A-E (Level 3)

7:50 AM - 8:00 AM

Welcome / Opening Remarks by AGE President

Location: Cascade A-E (Level 3)
Speaker: Adam Salmon

8:00 AM - 9:30 AM

Session 1: Early Life Effects on Aging Processes

Location: Cascade A-E (Level 3)
Chair & Speaker: Michael Olivier

The Impact of in Utero Exposures to Malnutrition on Multi-System Processes and Aging Trajectories

8:00 AM - 8:22 AM
Speaker: Michael Olivier

The Impact of Maternal Obesity During Pregnancy on Offspring Aging and Potential Interventions

8:22 AM - 8:44 AM
Speaker: Elena Zambrano

Social Stress Drives Systemic and Brain Aging

8:44 AM - 9:06 AM
Speaker: Alessandro Bartolomucci

The POLARIS Platform for Omics and Longevity AI-Assisted Research Integration and Scoring

9:06 AM - 9:18 AM
Speaker: Albert Higgins-Chen

In Vitro Heterochronic Parabiosis Identifies Pigment Epithelium-Derived Factor as a Systemic Mediator of Rejuvenation by Young Blood

9:18 AM - 9:30 AM
Speaker: Xizhe Wang

9:30 AM - 10:00 AM

Break

Location: Foyer

10:00 AM - 11:30 AM

Session 2: Environmental Toxin Exposures and Aging Mechanisms

Location: Cascade A-E (Level 3)

Chair: Michael Stout

Phthalate Exposure and Female Reproductive Aging Mechanisms

10:00 AM - 10:22 AM

Speaker: Jodi Flaws

Urban Volatile Organic Compounds as Environmental “Gerodriv­ers” of Neuroimmune and Systemic Aging

10:22 AM - 10:44 AM

Speaker: Marianna Sadagurski

Minding the Nanoplastics: Understanding the Recent Discoveries of Nanoplastics in the Human Brain and Uncertainties Regarding How This May Impact Health

10:44 AM - 11:06 AM

Speaker: Matthew Campen

Microbial Heme Synthesis Modulates Host Oxidative Stress Tolerance, Mitochondrial Dynamics, and Hypoxia-Like Signaling

11:06 AM - 11:18 AM

Speaker: Ajay Bhat

Spliceosome Decline Contributes to Regional Brain Vulnerability in Aging

11:18 AM - 11:30 AM

Speaker: James Redden

11:30 AM - 12:00 PM

Trainee Poster Pitches I

Location: Cascade A-E (Level 3)

1. A Diet-Drug Interaction Reveals Hepatic mTORC1 to Mediate Diet-Induced FGF21 Expression and Energy Expenditure

11:30 AM - 12:00 PM

Speaker: Yang Yeh

2. Endothelial Lipid Accumulation Promotes Microvascular Dysfunction in the Aging Brain

11:30 AM - 12:00 PM

Speaker: Sarah Otu-Boakye

3. An optimized surgical stress challenge reveals resilience as a cause and consequence of aging

11:30 AM - 12:00 PM

Speaker: Todd Richmann

4. Tissue-Resident Ovarian Macrophage Aging Primes Neuroinflammation in Females

11:30 AM - 12:00 PM

Speaker: Ewa Poljanska

5. Transcriptomic Features of Aging Hallmarks in Primates with Diverse Lifespans

11:30 AM - 12:00 PM

Speaker: Chen Zheng

6. Mitochondrial Metabolism and Epigenetic Crosstalk in Senescent Cells

11:30 AM - 12:00 PM

Speaker: Helene Martini

7. A Preclinical Therapeutic Study to Uncover Mechanisms of Cognitive Resilience to Alzheimer's Disease

11:30 AM - 12:00 PM

Speaker: Alberto Williams-Medina

8. An Omega-3 Fatty Acid Enriched Diet Increases Skeletal Muscle EPA-Derived Oxylipins and Enhances Skeletal Muscle and Macrophage Function in Aged Mice

11:30 AM - 12:00 PM

Speaker: Robert Castro

9. Role of iPLA2 on Store Operated Ca²⁺ Entry (SOCE) and Muscle Force Generation During Aging

11:30 AM - 12:00 PM

Speaker: Hongyang Xu

10. The Molecular Mechanisms of Mitophagy in Regulating Hippocampal Neurogenesis During Aging

11:30 AM - 12:00 PM

Speaker: Adele Finch

12:00 PM - 12:30 PM

Lunch Line Extra Time

Location: Foyer & Cascade A-E (Level 3)

12:30 PM - 1:00 PM

Denham Harman Research Award Lecture: What’s Worth Doing in Geroscience at This Moment?

Location: Cascade A-E (Level 3)

Speaker: Steven Austad

1:00 PM - 1:30 PM

AFAR Cristofalo Award Luncheon - Pharmacological Rejuvenation of the Aging Hypothalamus

Location: Cascade A-E (Level 3)
Speaker: Marianna Sadagurski

1:30 PM - 3:00 PM

Session 3: Causes and Consequences of Immune Aging

Location: Cascade A-E (Level 3)
Chair: Ann Griffith

Understanding Variability of Immune Aging from Single-Cell Prospective

1:30 PM - 1:52 PM
Speaker: Maxim Artyomov

Chronic Inflammation and Organ Dysfunction Driven by an Ageing Immune System

1:52 PM - 2:14 PM
Speaker: Christina Camell

Deconstructing Aging with Senolytic CAR T Cells

2:14 PM - 2:36 PM
Speaker: Corina Amor Vegas

Rapamycin Enhances Resilience Against DNA Damage in the Ageing Human Immune System

2:36 PM - 2:48 PM
Speaker: Loren Kell

Succinate Delivery Increases Macrophage Content and Improves Skeletal Muscle and Myocardial Regrowth Following Disuse in Aged Mice

2:48 PM - 3:00 PM
Speaker: Zachary Fennel

3:00 PM - 3:30 PM

Break

Location: Foyer

3:30 PM - 5:15 PM

Session 4: A4LI: Bridging Discovery and Application: The Longevity Biotech Landscape (Including Panel Discussion)

Location: Cascade A-E (Level 3)
Chair: Brenda Eap

How A4LI is Advancing Longevity Science in DC and Beyond

3:30 PM - 3:45 PM
Speaker: Brenda Eap

Junevity - Cell Reprogramming with siRNA

3:45 PM - 4:05 PM
Speaker: Janine Sengstack

BioAge Labs - Drug Discovery for Healthy Aging

4:05 PM - 4:25 PM
Speaker: Eric Morgen

Rubedo Life Sciences - GPX4 Modulation: A First-In-Class Selective Senolytic Strategy in a Phase 1 Clinical Study for Inflammatory Skin Conditions and Aging Skin

4:25 PM - 4:45 PM
Speaker: Alberto Vitari

Panel Discussion - Bridging Discovery and Application: The Longevity Biotech Landscape

4:45 PM - 5:15 PM

5:30 PM - 7:30 PM

Poster Session 1

Location: Ballroom ABC (Level 2)

Announcement Board

5:30 PM - 7:30 PM

Geroscience Poster I

5:30 PM - 7:30 PM

Geroscience Poster II

5:30 PM - 7:30 PM

1. A Diet-Drug Interaction Reveals Hepatic mTORC1 to Mediate Diet-Induced FGF21 Expression and Energy Expenditure

5:30 PM - 7:30 PM
Speaker: Yang Yeh

2. Endothelial Lipid Accumulation Promotes Microvascular Dysfunction in the Aging Brain

5:30 PM - 7:30 PM
Speaker: Sarah Otu-Boakye

3. An optimized surgical stress challenge reveals resilience as a cause and consequence of aging

5:30 PM - 7:30 PM
Speaker: Todd Richmann

4. Tissue-Resident Ovarian Macrophage Aging Primes Neuroinflammation in Females

5:30 PM - 7:30 PM

Speaker: Ewa Poljanska

5. Transcriptomic Features of Aging Hallmarks in Primates with Diverse Lifespans

5:30 PM - 7:30 PM

Speaker: Chen Zheng

6. Mitochondrial Metabolism and Epigenetic Crosstalk in Senescent Cells

5:30 PM - 7:30 PM

Speaker: Helene Martini

7. A Preclinical Therapeutic Study to Uncover Mechanisms of Cognitive Resilience to Alzheimer's Disease

5:30 PM - 7:30 PM

Speaker: Alberto Williams-Medina

8. An Omega-3 Fatty Acid Enriched Diet Increases Skeletal Muscle EPA-Derived Oxylipins and Enhances Skeletal Muscle and Macrophage Function in Aged Mice

5:30 PM - 7:30 PM

Speaker: Robert Castro

9. Role of iPLA2 on Store Operated Ca²⁺ Entry (SOCE) and Muscle Force Generation During Aging

5:30 PM - 7:30 PM

Speaker: Hongyang Xu

10. The Molecular Mechanisms of Mitophagy in Regulating Hippocampal Neurogenesis During Aging

5:30 PM - 7:30 PM

Speaker: Adele Finch

21. Sexual Dimorphism in the Sympathetic Innervation of Pancreatic Islets in Aged Mice

5:30 PM - 7:30 PM

Speaker: Aalok K C

22. Endogenous DNA damage drives neuroinflammation and retinal degeneration

5:30 PM - 7:30 PM

Speaker: Akilavalli Narasimhan

23. mTOR inhibition bypasses loss of Complex I activity by a mechanism dependent on Sirt3

5:30 PM - 7:30 PM

Speaker: Alessandro Bitto

24. Disruption of the growth hormone receptor in pancreatic alpha-cells, but not beta-cells, recaptures the growth hormone resistant phenotype

5:30 PM - 7:30 PM

Speaker: Tate Lasher

25. Systemic Impact of Age-Related Periodontal Metabolites on Neuroinflammation

5:30 PM - 7:30 PM

Speaker: Alexandru Movila

26. Distinct multiomic and sociobehavioral signatures reveal metabolic and microbial mechanisms of frailty independent of age

5:30 PM - 7:30 PM

Speaker: Alice Kane

27. Dissecting How Genetic Diversity Regulates Brain Resilience and Healthy Aging

5:30 PM - 7:30 PM

Speaker: Amara Martin

28. Intermittent low-dose administration of the serotonergic psychedelic 1P-LSD is associated with domain-specific cognitive and motor improvements in aged mice

5:30 PM - 7:30 PM

Speaker: Andrew Ferns

29. Spatial and molecular reorganization of microglia with aging

5:30 PM - 7:30 PM

Speaker: Andy Tsai

30. Use of a 3D-Engineered Tissue Model to Assess Age-Related Differences in Aortic Smooth Muscle Cell Function

5:30 PM - 7:30 PM

Speaker: Arjune Dhanekula

31. Investigating the effects of senomorphic treatments on Trypanosoma cruzi infection-induced cellular senescence

5:30 PM - 7:30 PM

Speaker: Azadeh Nasuhidehnavi

32. The little non-essential amino acid that could: evaluating the geroprotective potential of dietary arginine depletion in C57BL/6J mice

5:30 PM - 7:30 PM

Speaker: Bailey Knopf

33. Elucidating the Role of the Nucleoskeleton in Microvascular Aging

5:30 PM - 7:30 PM

Speaker: Caitlin Francis

34. Mapping cellular bioenergetics throughout the anatomy of aging neurons

5:30 PM - 7:30 PM

Speaker: Carlos Manlio Diaz Garcia

35. OLDER FEMALES EXHIBIT REDUCED MUSCLE TRANSCRIPTIONAL RESILIENCE TO REAMBULATION AFTER LIMB IMMOBILIZATION

5:30 PM - 7:30 PM

Speaker: Chad Skiles

36. ROS targeted new synthetic molecule improves mitochondrial function while reducing cellular senescence in vitro and in vivo

5:30 PM - 7:30 PM

Speaker: Chathurika Henpita

37. A Senescence-Gut Barrier-Inflammation Axis in Aging: Cross-Species Evidence and Senescence-Targeting Strategies

5:30 PM - 7:30 PM

Speaker: Christina Stevens

38. Investigating How Changes to Microglial Estrogen Signaling Protect Female Cognition during Aging in a Mouse Model of Microglia Tolerance

5:30 PM - 7:30 PM

Speaker: Clara Hibbs

39. Aging disrupts actin dynamics and compromises chemotactic migration in female mouse bone marrow neutrophils

5:30 PM - 7:30 PM

Speaker: Clayton Baker

40. The social exposome is uniquely related to depth-wise cortical iron accumulation across the adult lifespan

5:30 PM - 7:30 PM

Speaker: Daren Riddle

41. Combined radio- and chemotherapy accelerates cerebromicrovascular aging in a preclinical model of pediatric medulloblastoma

5:30 PM - 7:30 PM

Speaker: Dorina Nagy

42. Integrated Multi-Omics and Exposomics Profiling Reveals Systemic Metabolic Rewiring and Environmental Chemical Associations in Alzheimer's Disease

5:30 PM - 7:30 PM

Speaker: Edward Weinstein

43. Electrical stimulation differentially regulates myogenic programming and macrophage function in young and aged human myotubes

5:30 PM - 7:30 PM

Speaker: Elena Yee

44. Cell-specific RNA isoform remodeling in the aging mouse brain

5:30 PM - 7:30 PM

Speaker: Emmanouil Maragkakis

45. FMO-4 overexpression in C. elegans extends lifespan through altered mitochondrial function and morphology

5:30 PM - 7:30 PM

Speaker: Faith Carranza Connors

46. Sex-Specific Roles of FGF21 in Modulating Metabolic Responses to Isoleucine Restriction in Mice

5:30 PM - 7:30 PM

Speaker: Fan Xiao

47. Î⁻-Valerobetaine, a microbiome-derived obesogenic metabolite, promotes cognitive decline and neuronal mitochondrial dysfunction in aging

5:30 PM - 7:30 PM

Speaker: Gahyun Lim

48. Frailty Across the Life Course: Leveraging Electronic Health Records to Model Longitudinal Trajectories

5:30 PM - 7:30 PM

Speaker: Grace Bowman

49. Mimicking age-related deficits in mitochondrial Ca²⁺ uptake reshapes the cellular transcriptomic programs of the adult male hippocampus

5:30 PM - 7:30 PM

Speaker: Hadyn Rose

50. Unilateral Carotid Occlusion Induces Bilateral White Matter Injury and Cognitive Impairment in Aged Mice

5:30 PM - 7:30 PM

Speaker: Hannah Ampofo

51. Age-related chromatin dynamics in the female hypothalamus

5:30 PM - 7:30 PM

Speaker: Harold Marin

52. Ghrelin receptor suppression in microglia exacerbates aging-associated cognitive impairments

5:30 PM - 7:30 PM

Speaker: Hongying Wang

53. The re-emergence of measles: Lessons Learned and Effective Containment Measures

5:30 PM - 7:30 PM

Speaker: Hossam Ashour

54. Dentate Gyrus Dasatinib and Quercetin Infusions Improve Metabolism in C57BL/6 and APP/PS1 Mice

5:30 PM - 7:30 PM

Speaker: Jenelle Chapman

55. Elucidating the genetic mechanisms of the aging human brain

5:30 PM - 7:30 PM

Speaker: Jessica Young

56. Linking Rare Centenarian Non-Coding Regulatory Variants to Cellular Senescence via Integrative Functional Genomic Approaches

5:30 PM - 7:30 PM

Speaker: Jiping Yang

57. REFERRAL BIAS, SADDLE POINTS, AND HALLUCINATIONS IN LARGE BIOCHEMICAL MODELS (LBMs): PILOT DATA ON THE PRACTICAL USE OF BLOOD MRNA TO GUIDE DOSE FINDING OF GSK3b AND MTORC1 INHIBITORS IN HUMANS

5:30 PM - 7:30 PM

Speaker: Jon Berner

58. Ceramides: Lipid Villains We Can Actually Drug in Aging

5:30 PM - 7:30 PM

Speaker: Juan Palavicini

59. Integrated structure-function mapping of the cardiac mitochondrial interactome reveals mechanisms of energetic failure in aging

5:30 PM - 7:30 PM

Speaker: Junwon Heo

60. Defining the roles of PDGFR α and PDGFR β in diaphragm extracellular matrix remodeling

5:30 PM - 7:30 PM

Speaker: Laura Quijano Sarraga

61. Succinate Dehydrogenase Regulates Age-Associated Th17 Inflammation

5:30 PM - 7:30 PM

Speaker: Leena Bharath

62. Individual Variability in Serum 25(OH)D and Gut Microbiome Responses to Whole-Food Supplementation with Wild Alaskan Salmon in Sled Dogs

5:30 PM - 7:30 PM

Speaker: Leilani Megliola

63. Small Worms, Big Impact: Charting Mechanistic Pathways of Age-Related Neurodegeneration

5:30 PM - 7:30 PM

Speaker: Lexi-Amber Hassell

64. Genome-wide and genome-wide interaction study of age-related frailty.

5:30 PM - 7:30 PM

Speaker: Luke Evans

65. Cytochrome c oxidase-inhibitory wavelengths of near infrared light rejuvenate mitochondrial bioenergetics in muscle cells by activating mitochondrial quality control

5:30 PM - 7:30 PM

Speaker: Maik Hüttemann

66. Microplastics as Environmental Drivers of Immunometabolic Senescence

5:30 PM - 7:30 PM

Speaker: Maria Forni

67. Social and physical frailty indices in aging mice: A comparative analysis of longitudinal and cross-sectional designs

5:30 PM - 7:30 PM

Speaker: Maria Razzoli

68. Investigation of multiple biomarkers of aging and disease in urine specimens from the CALERIE study

5:30 PM - 7:30 PM

Speaker: Matt Yousefzadeh

69. Age associated Gzmk positive CD8 positive T cells accumulate in the brain and interact with microglia to drive neuroinflammation in vascular dementia

5:30 PM - 7:30 PM

Speaker: Md Akkas Ali

70. Endothelial to Mesenchymal Transition in Brain Aging

5:30 PM - 7:30 PM

Speaker: Michaela Vance

71. You are what you used to eat: Determining the role of dietary history on metabolic health, physical frailty, and longevity

5:30 PM - 7:30 PM

Speaker: Michelle Sonsalla

72. The ELITE Portal: Multi-omic Data Discovery in Exceptional Longevity

5:30 PM - 7:30 PM

Speaker: Milan Vu

73. Identification of interneurons in stress resistance and longevity

5:30 PM - 7:30 PM

Speaker: Mingyi Liu

74. Clinical Trials of Senolytics in Alzheimer's Disease Treatment and Prevention

5:30 PM - 7:30 PM

Speaker: Miranda Orr

75. Hyperbaric Oxygen Therapy as a Multitarget Intervention to Enhance Motor and Cognitive Function in Aged Mice

5:30 PM - 7:30 PM

Speaker: Nathalie Sumien

76. Age-Associated Xist Upregulation Is Linked to Heterochromatin Reorganization in Female Neurons

5:30 PM - 7:30 PM

Speaker: Neta Shwartz

77. Succinate Dehydrogenase Modulates Age- Associated T Cell Mitochondrial Structure Dynamics and Function

5:30 PM - 7:30 PM

Speaker: Nicholas Spinale

78. Neuronal Overexpression of a Necroptosis Protein Causes Muscle Weakness and Neuromuscular Junction Dysfunction in a Novel Mouse Model

5:30 PM - 7:30 PM

Speaker: Nidheesh Thadathil

79. Targeting FKBP_s to Regulate GSK3 β to Impact Aging

5:30 PM - 7:30 PM

Speaker: Nunaya Polycarp

80. Sleep Transition Volatility as a Multiscale Biomarker of Neural, Cognitive, and Physiological Resilience Across the Adult Lifespan

5:30 PM - 7:30 PM

Speaker: Parikshat Sirpal

81. Inflammation as a mediator of organ damage and lifespan reduction in short-lived mouse models

5:30 PM - 7:30 PM

Speaker: Parth Sarker

82. Oxylipin-derived SASP factors are upregulated with muscle atrophy and impaired recovery in aging

5:30 PM - 7:30 PM

Speaker: Paul-Emile Bourrant

83. Cell-Type-Specific Modulation of p16 and p21 in Glial Populations in the Aging CNS

5:30 PM - 7:30 PM

Speaker: Pedro Versuti Del Cioppo Vasques

84. A leukocyte metabolic challenge improves the relationship between blood bioenergetics and functional capacity in older adults

5:30 PM - 7:30 PM

Speaker: Philip Kramer

85. Stromal CCN2 is a Therapeutic Target for Supporting Transplanted Hematopoietic Progenitors in the Aged Bone Marrow Microenvironment

5:30 PM - 7:30 PM

Speaker: Piper Wilburn

86. Investigating Glial Cell Organization in Pancreatic Islets Throughout the Lifetime in Mice

5:30 PM - 7:30 PM

Speaker: Prajakta Sharma

87. TransIAGE: A Unified Platform to Build and Translate Aging Biomarkers into Clinical Surrogate Endpoints

5:30 PM - 7:30 PM

Speaker: Raghav Sehgal

88. Development of a Novel Analytical Approach for Quantification of Advanced Glycation End products in Drosophila Hemolymph and Assessment of Dietary Polyphenol Interventions

5:30 PM - 7:30 PM

Speaker: Raima Sen

89. A New Strategy for Evaluating the Pathological Status of Rodents as They Age Using an Old Method

5:30 PM - 7:30 PM

Speaker: Ramasamy Selvarani

90. Investigating the role of hallmarks of aging in immunity and aging

5:30 PM - 7:30 PM

Speaker: Rituparna Ghosh

91. Sex-specific ER α signaling pathways that underlie metabolic responsiveness to 17 β -estradiol

5:30 PM - 7:30 PM

Speaker: Roberto Santin Marquez

92. One Size Does Not Fit All: Demographic Variation in Iron Biomarkers and Implications for Public Health Screening

5:30 PM - 7:30 PM

Speaker: Rola Zeidan

93. Atherosclerosis-induced endothelial senescence increases cerebral microhemorrhage vulnerability in Ldlr-KO mice

5:30 PM - 7:30 PM

Speaker: Roland Patai

94. Transient early-life protein restriction establishes sex-specific developmental and metabolic programming

5:30 PM - 7:30 PM

Speaker: Rong Yuan

95. Leveraging Machine Learning to Predict Novel Geroprotective Drugs

5:30 PM - 7:30 PM

Speaker: Safa Beydoun

96. NAD⁺ Mediated Autophagy Degrades Progerin and Counteracts Senescence in Hutchinson-Gilford Progeria Syndrome Cells

5:30 PM - 7:30 PM
Speaker: Sanjay Kureel

97. Quantifying Physical Resilience to Predict Early Biomarkers of Aging in Mice

5:30 PM - 7:30 PM
Speaker: Santny Shanmugarama

98. Randomized clinical trial of metformin vs. placebo to target frailty in older adults

5:30 PM - 7:30 PM
Speaker: Sara Espinoza

99. Cryptic Transcript Promoter and TES Identification Algorithm in Yeast using RNA Sequencing

5:30 PM - 7:30 PM
Speaker: Seung-Sub Choi

100. Mechanisms of lifespan and healthspan benefits by neuroactive compounds on aging and age-related diseases

5:30 PM - 7:30 PM
Speaker: Shelby Innes

101. Mechanisms of Zinc Finger Protein 518A in Ovarian Aging

5:30 PM - 7:30 PM
Speaker: Shweta Dipali

102. Non-invasive investigation of the aging female lower genital tract identifies signatures of accelerated epigenetic aging and immune activation

5:30 PM - 7:30 PM
Speaker: Shyleen Frost

103. Longitudinal associations of one-carbon metabolism biomarkers with accelerated biological and epigenetic aging among older adults in India

5:30 PM - 7:30 PM
Location: Ballroom BC
Speaker: Sithara Vivek

104. Whole Brain Irradiation Accelerates Cerebrovascular Aging Through Endothelial Senescence and Cerebral Microhemorrhages

5:30 PM - 7:30 PM
Speaker: Siva Sai Chandragiri

105. The Hidden Drivers of Cognitive Aging: Exposome Insights into Neurodegeneration

5:30 PM - 7:30 PM
Speaker: Sridevi Nair

106. Entropy and diffusion characterize mutation accumulation and biological information loss

5:30 PM - 7:30 PM
Speaker: Stephan Baehr

107. Age-Dependent Diurnal and Seasonal Rhythms of the Human Gut Microbiome

5:30 PM - 7:30 PM
Speaker: Stephany Flores Ramos

108. BCMA regulates microglial states and associated neural maintenance

5:30 PM - 7:30 PM
Speaker: Sunghwan Ko

109. A next-generation hyperpolarized ¹³C imaging toolbox to quantify metabolic remodeling and anti-aging drug response in brain aging

5:30 PM - 7:30 PM
Speaker: Sydney Scofield

110. Cytochrome C Oxidase Phosphorylation as a Novel Biomarker of Cardiac Inflammaging

5:30 PM - 7:30 PM
Speaker: Tasnim Arroum

111. High Intensity Interval Training in Aged Female Mice Preserves Physical, Cognitive, and Cardiovascular Function

5:30 PM - 7:30 PM
Speaker: Ted Graber

112. Resources at the National Institute on Aging: sustaining and promoting aging research

5:30 PM - 7:30 PM
Speaker: Tiziana Cogliati

113. Mitochondrial Oxidative Throughput Limitation as a Bioenergetic Bottleneck in Aging

5:30 PM - 7:30 PM
Speaker: Torsak Tippairote

114. Immune Aging Drives Female-Biased Autoimmunity and Protective Immune States

5:30 PM - 7:30 PM
Speaker: Umesh Deshmukh

115. Engineered Indole-Producing Bacteria Improve Immunometabolic Homeostasis in Aged Mice

5:30 PM - 7:30 PM
Speaker: Weiqi Ai

116. Tau conveys intrinsic hyperactivity of VTA dopamine neurons but an inability to sustain burst firing

5:30 PM - 7:30 PM
Speaker: William Kennedy

117. Unveiling the Single Cell Multiomic Landscape of Extreme Human Longevity Cell Type Specific Aging Clocks and Regulatory Networks

5:30 PM - 7:30 PM

Speaker: Xiao Ma

118. Aging-Associated Mycobacterial Infection in Macrophages and Mice

5:30 PM - 7:30 PM

Speaker: Yong Cheng

119. Single-cell spatial mapping of human hippocampus in prodromal Alzheimer's disease

5:30 PM - 7:30 PM

Speaker: Yooree Ha

120. Safety and Tolerability of Daily Subcutaneous Elamipretide in Older Adults: An Open-Label Phase 2a Pilot Study

5:30 PM - 7:30 PM

Speaker: Ziyang Liu

121. Microbial heme synthesis modulates host oxidative stress tolerance, mitochondrial dynamics, and hypoxia-like signaling

5:30 PM - 7:30 PM

Speaker: Ajay Bhat

122. Spliceosome Decline Contributes to Regional Brain Vulnerability in Aging

5:30 PM - 7:30 PM

Speaker: James Redden

123. Caloric Restriction Preserves Ovarian Reserve And Improves Metabolic Parameters Independently Of Diet Composition

5:30 PM - 7:30 PM

Speaker: Juliane Prosczek

124. α -Ketoglutarate as a potential regulator of senescent cells

5:30 PM - 7:30 PM

Speaker: Quetzalli Angeles

179. MASS-ADT: Identifying fundamental mechanisms of skeletal muscle ageing in older men undergoing Androgen Deprivation Therapy - a feasibility study

5:30 PM - 7:30 PM

Location: Ballroom BC

Speaker: Katherine Chin

194. Predicting Age-Related Blood-Brain Barrier Disruption in p16-3MR Mice Using a Block-Wise Missing Data Framework

5:30 PM - 7:30 PM

Location: Ballroom ABC (Level 2)

Speaker: Paul Okafor

5:30 PM - 7:30 PM

Virtual Poster Session

The Food Environment and Risk of Dementia, Parkinson's Disease, Brain Structural Changes, and Mortality: A Geospatial, Multistate and Longitudinal Analysis of the UK Biobank

5:30 PM - 7:30 PM

Speaker: May Baydoun

Clinically Documented Social Adversity (Z55-Z65 Codes) and Brain Structure: A Cross-Sectional Neuroimaging Study in UK Biobank

5:30 PM - 7:30 PM

Speaker: May Baydoun

Oligomeric Tau Induces Endothelial Senescence and Brain Microvascular Dysfunction in AD Tauopathy

5:30 PM - 7:30 PM

Speaker: Stacy Hussong

The anti-aging effect of R- β -hydroxybutyrate in Hutchinson-Gilford Progeria Syndrome

5:30 PM - 7:30 PM

Speaker: Eduardo Ledezma

Transmission of pathogenic tau to brain microvascular endothelial cells in Alzheimer's disease

5:30 PM - 7:30 PM

Speaker: Aishwarya Chitoor Muppala

The Effects of Stereotypes of Aging on Elder Care Decisions

5:30 PM - 7:30 PM

Speaker: Jake Markarian

Downregulated net protein breakdown and intracellular BCAA kinetics during aging: markers of functional decline

5:30 PM - 7:30 PM

Speaker: Minchae Kang

Trajectory of perturbations in intracellular production rates of brain-related amino acids during aging

5:30 PM - 7:30 PM

Speaker: Minchae Kang

Exercise-induced myokine and BDNF release are intact in 80yr+ older adults

5:30 PM - 7:30 PM

Speaker: Minchae Kang

Regional brain aging is governed by integrated polygenic systems

5:30 PM - 7:30 PM

Speaker: Nicholas Kim

Age-Related Differences in Radiodensity-Stratified Intracranial Internal Carotid Artery Calcification in Pre-Industrial Populations

5:30 PM - 7:30 PM

Speaker: Fangyun Liu

Reduced physical function in the 40s is associated with circulating markers of neuroaxonal injury and systemic inflammation

5:30 PM - 7:30 PM

Speaker: Jenny Momkus

Intracranial Internal Carotid Artery Calcification Is Associated with Regional Brain Atrophy

5:30 PM - 7:30 PM

Speaker: Xiao Xu

7T MRI Muscle and Nerve Biomarkers Predict Physical Function in Aging

5:30 PM - 7:30 PM

Speaker: Karan Singh

Altered sensorimotor cortical hemodynamics in degenerative cervical myelopathy - an fNIRS pilot study

5:30 PM - 7:30 PM

Speaker: Ali Khan

Characterizing and Targeting Radiation Induced Cellular Senescence in Lung Fibroblasts

5:30 PM - 7:30 PM

Speaker: Sara Palega

Hepatocyte MLKL Links Chronic Liver Inflammation to Neuroinflammation in Aging

5:30 PM - 7:30 PM

Speaker: Deepa Sathyaseelan

Longitudinal Segmentation of Intracranial Internal Carotid Arterial Calcification from CT Scans of Two Native South American Populations

5:30 PM - 7:30 PM

Speaker: Jorge A Solis Galvan

7:30 PM - 8:30 PM

Trainee/Mentor Mixer (Sponsored by A4LI)

Location: Ballroom AB Level 2

Thursday, June 04, 2026

7:00 AM - 8:00 AM

Breakfast

Location: Foyer & Cascade A-E (Level 3)

8:00 AM - 9:30 AM

Session 5: New Roles for Chronobiology Regulation of Aging Mechanisms

Location: Cascade A-E (Level 3)

Chair: Kevin Koronowski

Caloric Restriction Reprograms Circadian Rhythms in Global and Selective Protein Translation

8:00 AM - 8:22 AM

Speaker: Roman Kondratov

Aligning Circadian Physiology to Promote Healthy Aging

8:22 AM - 8:44 AM

Speaker: Victoria ACOSTA RODRIGUEZ

Hepatic Protein Secretion in Age-Related Circadian Decline

8:44 AM - 9:06 AM

Speaker: Kevin Koronowski

Longitudinal and Life-Phase Specific Signatures Predict the First Onset of Age-Related Morbidity and Mortality in Rhesus Monkeys

9:06 AM - 9:18 AM

Speaker: Silas Kuang

Investigating Gut Microbial Biotransformation of Steroidal Sulfates in Aging

9:18 AM - 9:30 AM

Speaker: Nicole Wicker

9:30 AM - 10:00 AM

Break

Location: Foyer

10:00 AM - 11:30 AM

Session 6: Navigating NIA Funding, Training, and Career Pathways for Early-Stage Investigators

Location: Cascade A-E (Level 3)

Moderator: Christina Stevens

Welcome & Opening Remarks

10:00 AM - 10:05 AM

Speaker: Christina Stevens

Division of Aging Biology (DAB) Overview & Navigating NIA

10:05 AM - 10:15 AM

Speaker: Christy Carter

NIA Funding Opportunities for Early-Stage Investigators

10:15 AM - 10:30 AM

Speakers: Shoshana Kahana, Maria Carranza

Intramural vs. Extramural Career Paths & Training Opportunities

10:30 AM - 10:45 AM

Speaker: Nathan Basisty

Panel Discussion and Q&A

10:45 AM - 11:30 AM

Speakers: Maria Carranza, Holly Brown Borg, Michael Olivier, Rafael de Cabo, Nathan Basisty

11:30 AM - 12:00 PM

Trainee Poster Pitches II

Location: Cascade A-E (Level 3)

11. A Fourfold Male-Specific Lifespan Extension via Canonical Insulin/IGF-1 Signaling

11:30 AM - 12:00 PM

12. Multimorbidity as a Predictor of Mortality in Companion Dogs

11:30 AM - 12:00 PM

Speaker: Eric Foreman

13. Comprehensive Characterization of the Senescent Cell Surfaceome to Identify Clinically Applicable Biomarkers for Gerotherapy

11:30 AM - 12:00 PM

Speaker: Reema Banarjee

14. Cell-Autonomous and Nonautonomous Roles of Autophagy in Proteostasis and Aging

11:30 AM - 12:00 PM

Speaker: Caitlin Lange

15. Deciphering the Potential for Hyperbaric Oxygen Therapy as a Geroprotective Strategy

11:30 AM - 12:00 PM

Speaker: Kyle Jewell

16. Circadian Dysregulation in Aging Alters Senescence and Inflammatory Pathways in a Sex- and Time-of-Day–Dependent Manner

11:30 AM - 12:00 PM

Speaker: Gretchen Clark

17. Exposure to Young Somatic Ovarian Tissue Positively Influences Cognitive Behavior and Pathology in Post-Reproductive Mice

11:30 AM - 12:00 PM

Speaker: Nathan McCoy

18. Macronutrient Interactions Shape Cellular Senescence: Insights from the Geometric Framework for Nutrition

11:30 AM - 12:00 PM

Speaker: Samantha Jezak

19. Aging Sympathetic Nervous System: Alteration of Adrenergic Receptors and Sympathetic Varicosities in Pancreatic Islets

11:30 AM - 12:00 PM

Speaker: Daniela Francia

20. Transcriptional Integration of Lipid Metabolism, Redox defense, and Proteostasis in Aging

11:30 AM - 12:00 PM

Speaker: Jorge Castillo-Quan

11:30 AM - 12:30 PM

GeroScience Editorial Board Meeting - By Invitation Only

Location: Soldier Creek

12:00 PM - 12:30 PM

Lunch Line Extra Time

Location: Foyer & Cascade A-E (Level 3)

12:30 PM - 1:00 PM

James Joseph / Mark Smith Award Lecture

Location: Cascade A-E (Level 3)

Speaker: Alberto Espay ; Chair: Barbara Shukitt-Hale

1:00 PM - 2:30 PM

Session 7: From Fertility to Frailty: Ovarian Decline as a Sentinel of Female Aging

Location: Cascade A-E (Level 3)

Chair: Sarah Ocañas

Mechanisms of Ovarian Aging: A Target for Geroprotection in Women

1:00 PM - 1:22 PM

Speaker: Yousin Suh

Dysregulated Ovulatory Debris Clearance Drives Ovarian Inflammaging

1:22 PM - 1:44 PM

Speaker: Aubrey Converse

Ovarian Aging is Associated with CD8+ T-cell Dysregulation and Increased Immune-Mediated Tissue Injury

1:44 PM - 2:06 PM

Speaker: Enitome Bafor

mTOR Hyperactivation in Ovarian theca Cells Induces Age-Related Phenotypic Changes in the Ovary and Reduces Fertility

2:06 PM - 2:18 PM

Speaker: Julia Skalka

Sex-Specific Microglial Dynamics During Aging and Amyloid-β Pathology to Inform Alzheimer's Disease

2:18 PM - 2:30 PM

Speaker: Jillian Cox

2:30 PM - 3:00 PM

Break

Location: Foyer

3:00 PM - 4:40 PM

Session 8: Communication Breakdown: Loss of Interorgan Communication Driving Aging

Location: Cascade A-E (Level 3)

Chair: Michal Masternak

Novel Focus on Exosome-Mediated Endocrine Communication During Healthy Aging

3:00 PM - 3:22 PM

Speaker: Michal Masternak

Inter-Organ Communication Management (IOCoM): A New Mechanistic Insight into the Mechanism of Mammalian Aging and Longevity Control

3:22 PM - 3:44 PM

Speaker: Shin-Ichiro Imai

Microbiome–Gut–Brain Axis Alterations in Older Cancer Survivors with Cognitive Impairment

3:44 PM - 4:06 PM

Speaker: Shalini Jain

The Role of Interorgan Communication in the Ovarian Somatic Tissue-Dependent Extension of Health Span

4:06 PM - 4:28 PM

Speaker: Jeffrey Mason

The Extracellular Matrix as Responder and Driver of Tissue Aging

4:28 PM - 4:40 PM

Speaker: Eleanor Sheekey

5:00 PM - 7:00 PM

Poster Session II

Location: Ballroom ABC (Level 2)

Announcement Board

5:00 PM - 7:00 PM

11.

5:00 PM - 7:00 PM

12. Multimorbidity as a Predictor of Mortality in Companion Dogs

5:00 PM - 7:00 PM

Speaker: Eric Foreman

13. Comprehensive Characterization of the Senescent Cell Surfaceome to Identify Clinically Applicable Biomarkers for Gerotherapy

5:00 PM - 7:00 PM

Speaker: Reema Banarjee

14. Cell-Autonomous and Nonautonomous Roles of Autophagy in Proteostasis and Aging

5:00 PM - 7:00 PM

Speaker: Caitlin Lange

15. Deciphering the Potential for Hyperbaric Oxygen Therapy as a Geroprotective Strategy

5:00 PM - 7:00 PM

Speaker: Kyle Jewell

16. Circadian Dysregulation in Aging Alters Senescence and Inflammatory Pathways in a Sex- and Time-of-Day–Dependent Manner

5:00 PM - 7:00 PM

Speaker: Gretchen Clark

17. Exposure to Young Somatic Ovarian Tissue Positively Influences Cognitive Behavior and Pathology in Post-Reproductive Mice

5:00 PM - 7:00 PM

Speaker: Nathan McCoy

18. Macronutrient Interactions Shape Cellular Senescence: Insights from the Geometric Framework for Nutrition

5:00 PM - 7:00 PM

Speaker: Samantha Jezak

19. Aging Sympathetic Nervous System: Alteration of Adrenergic Receptors and Sympathetic Varicosities in Pancreatic Islets

5:00 PM - 7:00 PM

Speaker: Daniela Francia

20. Transcriptional Integration of Lipid Metabolism, Redox defense, and Proteostasis in Aging

5:00 PM - 7:00 PM

Speaker: Jorge Castillo-Quan

125. Caloric Restriction Ameliorates Pathological Hallmarks of Alzheimer’s Disease in Mice

5:00 PM - 7:00 PM

Speaker: Aaron Berkowitz

126. Systemic Inflammation Reveals Gonadal Control of Neuroinflammation Relevant to Aging

5:00 PM - 7:00 PM

Speaker: Aldona Szewczyk

128. Examining the role of octopamine and serotonin in the pro-longevity effects of antipsychotics

5:00 PM - 7:00 PM

Speaker: Amit Dutta

129. Investigating the Role of First- and Second-Layer Interneurons in Cell Non-autonomous Longevity Pathways in *C. elegans*

5:00 PM - 7:00 PM

Speaker: Andrea Miller

130. From Individual Aging Patterns To Population Resilience

5:00 PM - 7:00 PM

Speaker: Andrea Scharf

131. Modulating aged brain cholesterol metabolism may prevent neurodegeneration and alleviate cognitive decline in Alzheimer's disease

5:00 PM - 7:00 PM

Speaker: Bill Zhu

132. Mapping the kinetics and mechanisms regulating lipid peroxidation in age-associated thymus atrophy

5:00 PM - 7:00 PM

Speaker: Brittan Burns

133. β 1 T cells promote sex-specific visceral adipose tissue inflammation and senescence via relaxin-3 during aging

5:00 PM - 7:00 PM

Speaker: Caitlyn Smith

134. Translational insights into sex dimorphism in aging

5:00 PM - 7:00 PM

Speaker: Cassandra McGill

135. Sex- and region-specific microglial responses to pathological tau

5:00 PM - 7:00 PM

Speaker: Celso Catumbela

136. Hepatocyte MLKL Drives Cellular Senescence in Aging Liver Independent of Necroptosis

5:00 PM - 7:00 PM

Speaker: Chao Jiang

137. Towards a translational framework for social frailty

5:00 PM - 7:00 PM

Speaker: Charlie Collinge

138. Novel model to delineate astrocyte energy metabolism in cognitive aging.

5:00 PM - 7:00 PM

Speaker: Chenxi Lin

139. Novel 3-D tissue constructs as a model to study skeletal muscle aging

5:00 PM - 7:00 PM

Speaker: Christian Paulos

140. Maternal obesity elicits male-specific mitochondrial changes in adult baboon offspring

5:00 PM - 7:00 PM

Speaker: Daniel Adekunbi

141. Dissecting the RNA-Protein Relationship in Aging: Insights from Five Human Tissues using the Genotype-Tissue Expression (GTEx) Resource.

5:00 PM - 7:00 PM

Speaker: Daniela Key-Planas

142. Longitudinal and life-phase specific signatures predict the first onset of age-related morbidity and mortality in rhesus monkeys.

5:00 PM - 7:00 PM

Speaker: Silas Kuang

144. Astrocyte-microglia metabolic crosstalk underlies SGLT2i neuroprotection in Alzheimer's Disease (AD)

5:00 PM - 7:00 PM

Speaker: Dulmalika Herath Manchanayake

145. Mitochondrial dysfunction contributes to post-mitotic senescence and pathological features of Alzheimer's disease in induced neurons

5:00 PM - 7:00 PM

Speaker: Duncan Croll

146. Adipose ATGL-Dependent Lipolysis Is Required for Calorie Restriction-Induced Adipocyte Heterogeneity and Metabolic Health

5:00 PM - 7:00 PM

Speaker: Duraipandy Natarajan

147. Mouse macrophages from diverse niches show generally divergent age-related transcriptional remodeling signatures

5:00 PM - 7:00 PM

Speaker: Ella Schwab

148. Pseudo-restricted mean survival time reveals genetic determinants of resilience and longevity in rhesus macaques.

5:00 PM - 7:00 PM

Speaker: Ellen Quillen

149. Automated Longitudinal Monitoring of Lifespan and Fluorescence in Individual *Caenorhabditis elegans*

5:00 PM - 7:00 PM

Speaker: Emily Gardea

150. Lifespan extension by Spermidine and Methionine Restriction: Dependence on Protein Methylation?

5:00 PM - 7:00 PM

Speaker: Emma Liao

151. Ovarian aging is associated with CD8+ T-cell dysregulation and increased immune-mediated tissue injury

5:00 PM - 7:00 PM

Speaker: Enitome Bafor

152. Adiponectin receptor activation reduces hippocampal tauopathy

5:00 PM - 7:00 PM

Speaker: Eric McGregor

153. Maternal Obesity Dysregulates Offspring Microbiome, Bone Marrow Macrophages and Impairs Cognition

5:00 PM - 7:00 PM

Speaker: Eric Moore

154. Phantom-calibrated micro-CT measurement of trabecular BMD in sheep stifles

5:00 PM - 7:00 PM

Speaker: Ethan Gilliam

155. Chronic vs. Transient Redox Stress: How Stress Duration Shapes Muscle Mitochondrial Adaptation

5:00 PM - 7:00 PM

Speaker: Ethan Ostrom

156. Circulating exosomal microRNAs as a prognostic of Metabolic Syndrome in pre- and post-menopause women

5:00 PM - 7:00 PM

Speaker: Fabiola Dos Santos

157. Telomere-Dependent Tissue Aging in HuT Mice: A Humanized Telomere Model for Geroscience

5:00 PM - 7:00 PM

Speaker: Fan Zhang

158. Skeletal muscle AMPK as a therapeutic target for sarcopenic obesity in male mice

5:00 PM - 7:00 PM

Speaker: Haiming Kerr

160. mTOR drives hnRNP family remodeling in Alzheimer's disease

5:00 PM - 7:00 PM

Speaker: Haneen Makhoul

161. Transmission of pathogenic tau to astrocytes induces astrocyte senescence and compromises neuronal integrity in Alzheimer's disease

5:00 PM - 7:00 PM

Speaker: Haneen Makhoul

162. Dietary lipid remodeling via NHR-49 and autophagy promotes proteostasis and longevity in *Caenorhabditis elegans*

5:00 PM - 7:00 PM

Speaker: Hannah Majors

163. Evaluation of a Novel Temperature-Based Chronological Lifespan Assay in *Saccharomyces cerevisiae*

5:00 PM - 7:00 PM

Speaker: Hannah Wang

164. Microbiota-Host Interactions in Healthy Aging and Longevity

5:00 PM - 7:00 PM

Speaker: Hatem Elshabrawy

165. Knockdown of astrocytic FABP7 attenuates Alzheimer's disease-like pathology in APP/PS1 mice

5:00 PM - 7:00 PM

Speaker: Haylee Hamilton

166. Who could benefit from 17 α -Estradiol? Rats may tell a different story than mice: Preliminary data from an ongoing lifespan study.

5:00 PM - 7:00 PM

Speaker: Hoang Van Nguyen

167. Impaired proteasome function limits CD4⁺ memory T cell resilience in aging

5:00 PM - 7:00 PM

Speaker: Ines Sturmlechner

168. CHARACTERIZING THE COPPER STRESS RESPONSE USING MULTI-OMICS DATA

5:00 PM - 7:00 PM

Speaker: Isabella Irby

169. Role of PPAR Signaling in Mediating Protection in Middle-Aged Ames Dwarf Mice Under High-Fat Diet

5:00 PM - 7:00 PM

Speaker: Jaspreet Kaur Osan

170. The impact of pregnancy history on cognition and neuropathology in aged presenilin 2 null female mice.

5:00 PM - 7:00 PM

Speaker: Jennie Fang

171. ARF6 as a Regulator of Amyloid β Trafficking and a Potential Therapeutic Target in

Alzheimer's Disease

5:00 PM - 7:00 PM

Speaker: Jialai Ying

173. The role of LROs in modulating host-microbial interactions via PMK-1 in the context of the C. elegans gut microbiome and aging

5:00 PM - 7:00 PM

Speaker: Joanne Jung

174. Systems Biology of Human Aging - Network Model 2026

5:00 PM - 7:00 PM

Speaker: John Furber

176. Beyond Longer Life: Does Mitoglitazone's Sex-Dependent Lifespan Extension Translate Into Better Healthspan?

5:00 PM - 7:00 PM

Speaker: Juan Palavicini

177. Longitudinal DNA methylation aging of the lower female genital tract

5:00 PM - 7:00 PM

Speaker: Judy Wu

178. Redefining NAD Metabolism in Aging Through the Host-Microbiome Axis

5:00 PM - 7:00 PM

Speaker: Karthikeyani Chellappa

180. Impact of Prdm16 on Sex-Dependent Adipose Tissue Remodeling During Dietary Protein Restriction

5:00 PM - 7:00 PM

Speaker: Khristina Young

181. Chemotherapy-Induced Cerebrovascular Dysfunction Following Cyclophosphamide and Vincristine Treatment

5:00 PM - 7:00 PM

Speaker: Kiana Vali Kordestan

183. A role of the lncRNA H19 in the regulation of tau-induced astrocyte senescence

5:00 PM - 7:00 PM

Speaker: Lauren Miller

184. Targetable Interferon Signaling in Senescent Monocytes: A Strategy to Mitigate Inflammaging

5:00 PM - 7:00 PM

Speaker: Mansi Shrivastava

185. Skeletal muscle remodeling contributes to extended healthspan in ames dwarf mice.

5:00 PM - 7:00 PM

Speaker: Matthew Johnston

186. Fatty Acid Oxidation as a Mediator of Rapamycin-Driven Longevity

5:00 PM - 7:00 PM

Speaker: Megan McGuire

182. Identification of Age-Associated Signaling Alterations That Precede Alterations to Mitochondria and Senescence Factors

5:00 PM - 7:00 PM

Speaker: Michael Olivier

187. Comparison of age-correlated plasma protein signatures across non-human primate species.

5:00 PM - 7:00 PM

Speaker: Michael Olivier

188. Plasma metabolite signatures associated with human aging

5:00 PM - 7:00 PM

Speaker: Michael Olivier

189. Spatial Analysis of Cellular and Matrix Proteins Reveals Remodeling of Inter-tissue Communication in Aging Bone

5:00 PM - 7:00 PM

Speaker: Milos Marinkovic

191. Inflammaging reprograms lymphoma biology and establishes a microenvironment vulnerable to T-cell redirecting therapies

5:00 PM - 7:00 PM

Speaker: Nahuel Zamponi

192. Effects of transcranial photobiomodulation on markers of neurovascular coupling and cognitive function in older adults: a pilot randomized double-blinded clinical trial

5:00 PM - 7:00 PM

Speaker: Norbert Dosa

193. Validating a powerful single-point survival screen for identifying novel longevity interventions in nematodes

5:00 PM - 7:00 PM

Speaker: Patrick Phillips

195. Whole-brain irradiation induces brain cellular senescence and impairs mitochondrial oxygen consumption in young mice

5:00 PM - 7:00 PM

Speaker: Raghavendra Yelahanka Nagaraja

196. Exploring the roles of iron and host-microbe interactions in the lifespan extension of C. elegans mediated by 3-hydroxyanthranilic acid

5:00 PM - 7:00 PM

Speaker: Robert Railey

197. Effects of Antioxidant Enzyme, Gpx4, on Healthspan in Mice

5:00 PM - 7:00 PM

Speaker: Rushmeen Tariq

198. Estrous Cycle Dependent Immune Plasticity as a Foundation for Ovarian Aging

5:00 PM - 7:00 PM

Speaker: Sarai Badillo

199. Neuronal and metabolic regulation of stress resistance and longevity

5:00 PM - 7:00 PM

Speaker: Shijiao Huang

200. Targeting the RAGE V Domain with De Novo Protein Binders to Inhibit Glycation-Driven Inflammaging

5:00 PM - 7:00 PM

Speaker: Shiva Shankar Sundaravelu

201. Transcriptomic Profiling of Irradiation-Induced Brain Identifies Hypothalamic Senescence accelerates Cardiac Aging via Systemic Mechanisms

5:00 PM - 7:00 PM

Speaker: Shoba Ekambaram

202. Nuclear Hormone Receptor NHR-49/HNF4 α Couples Oocyte Quiescence to Resource Allocation and Longevity in *C. elegans*

5:00 PM - 7:00 PM

Speaker: Siu Lee

203. Mechanisms of cholesterol-dependent lifespan extension in *C. elegans*

5:00 PM - 7:00 PM

Speaker: Skye Rounseville

204. Disparate central and peripheral effects of ketogenic diet on brain and liver aging

5:00 PM - 7:00 PM

Speaker: Sreemathi Logan

205. Centromere dysfunction as a driver of age-associated chromosomal instability

5:00 PM - 7:00 PM

Speaker: Sweta Sikder

206. Effects of chronic mitochondrial stress on heart and skeletal muscle function in aged mice

5:00 PM - 7:00 PM

Speaker: Sydney Pruss

207. Delayed Neuromuscular Aging in Female Ames Dwarf Mice

5:00 PM - 7:00 PM

Speaker: Taylor Painter

208. Food for thought: transient food odor perception regulates reproductive investment and lifespan in *Drosophila*

5:00 PM - 7:00 PM

Speaker: Tze Chang (Justin) Ng

209. The role of myonuclear DNA synthesis in maintaining muscle mass, function, and adaptation to exercise

5:00 PM - 7:00 PM

Speaker: Urszula Wasniewska

210. Sex reversal mouse model to study hormonal regulation of microglia aging

5:00 PM - 7:00 PM

Speaker: Victor Ansere

211. Epigenomic regulation of gene expression in the brain by 3rd generation sequencing

5:00 PM - 7:00 PM

Speaker: Walker Hoolehan

212. Cortical gamma synchrony as a marker of white matter microstructural health

5:00 PM - 7:00 PM

Speaker: Ji Yaqi

213. Linking genetics to cell-type regulatory programs in human skeletal muscle aging

5:00 PM - 7:00 PM

Speaker: Yulong Tang

214. The Role of Adipose Tissue Senescence and Senescence-Associated Inflammation in Age-Related Skeletal Muscle Decline

5:00 PM - 7:00 PM

Speaker: Zinnarky Ortiz Correa

215. Transposable element derepression and heterochromatin decline during aging

5:00 PM - 7:00 PM

Speaker: Aaron Lemus

216. mTOR hyperactivation in ovarian theca Cells Induces Age-Related Phenotypic Changes in the Ovary and Reduces Fertility

5:00 PM - 7:00 PM

Speaker: Julia Skalka

217. Sex-specific microglial dynamics during aging & amyloid- β pathology to inform Alzheimer's Disease

5:00 PM - 7:00 PM

Speaker: Jillian Cox

218. Succinate delivery increases macrophage content and improves skeletal muscle and myocardial regrowth following disuse in aged mice

5:00 PM - 7:00 PM
Speaker: Zachary Fennel

219. Aging Amplifies Spinal Cord Structural Vulnerability in Males with Degenerative Cervical Myelopathy: A Multicenter Automated Analysis

5:00 PM - 7:00 PM
Speaker: Zachary Smith

220. Investigating gut microbial biotransformation of steroidal sulfates in aging

5:00 PM - 7:00 PM
Speaker: Nicole Wicker

221. Leveraging large human genetic datasets to uncover regulators of transposable elements in health and disease

5:00 PM - 7:00 PM
Speaker: Eyael Habtemariam

222. The Effects of Metformin on Mitochondrial Respiratory Function Over 24 Months Compared to Placebo

5:00 PM - 7:00 PM
Speaker: Jacob Holmes

223. The Interplay between somatic cell senescence and reproductive aging

5:00 PM - 7:00 PM
Location: Ballroom ABC (Level 2)
Speaker: Elikanah Olusayo Adegoke

224. The Impact of Dietary Protein Restriction on Stem Cell -Related Gene Expression in the Bone Marrow Adipose Niche

5:00 PM - 7:00 PM
Speaker: Ahvital Artison

225. The Impact of Low-Protein Diets on Stem Cell-Related Gene Expression and Pluripotency in Bone Marrow Adipocytes

5:00 PM - 7:00 PM
Speaker: Ahvital Artison

226. Recapitulating Age-Related Cardiac Rhythm Disease through an hiPSC-derived New Approach Methodology

5:00 PM - 7:00 PM
Speaker: André Monteiro da Rocha

6:30 PM - 7:30 PM	Dinner Buffet
7:00 PM - 8:00 PM	Trainee Data blitz Location: Cascade A-E (Level 3)
7:00 PM - 9:00 PM	AGE Board of Directors Executive Meeting - By Invitation Only Location: Soldier Creek

Friday, June 05, 2026

7:00 AM - 8:00 AM	Breakfast Location: Foyer & Cascade A-E (Level 3)										
8:00 AM - 9:30 AM	Session 9: Roles of Adipose Tissue in Mechanisms of Aging Location: Cascade A-E (Level 3) Chair: Cristal Hill <table><tr><td>Checkpoints of Inflammaging</td></tr><tr><td>8:00 AM - 8:22 AM Speaker: Vishwa Dixit</td></tr><tr><td>Selective mRNA Translational Control During Fasting and Aging</td></tr><tr><td>8:22 AM - 8:44 AM Speaker: Haojun Yang</td></tr><tr><td>The Aging Lipidome</td></tr><tr><td>8:44 AM - 9:06 AM Speaker: Peter Mullen</td></tr><tr><td>GDF3-Regulated Histone Methylation Promotes Adipose Inflammation with Age</td></tr><tr><td>9:06 AM - 9:18 AM Speaker: In Hwa (Ina) Jang</td></tr><tr><td>Adipose Tissue Quality Drives the Male Longevity Disadvantage</td></tr><tr><td>9:18 AM - 9:30 AM Speaker: Laurence Maeyens</td></tr></table>	Checkpoints of Inflammaging	8:00 AM - 8:22 AM Speaker: Vishwa Dixit	Selective mRNA Translational Control During Fasting and Aging	8:22 AM - 8:44 AM Speaker: Haojun Yang	The Aging Lipidome	8:44 AM - 9:06 AM Speaker: Peter Mullen	GDF3-Regulated Histone Methylation Promotes Adipose Inflammation with Age	9:06 AM - 9:18 AM Speaker: In Hwa (Ina) Jang	Adipose Tissue Quality Drives the Male Longevity Disadvantage	9:18 AM - 9:30 AM Speaker: Laurence Maeyens
Checkpoints of Inflammaging											
8:00 AM - 8:22 AM Speaker: Vishwa Dixit											
Selective mRNA Translational Control During Fasting and Aging											
8:22 AM - 8:44 AM Speaker: Haojun Yang											
The Aging Lipidome											
8:44 AM - 9:06 AM Speaker: Peter Mullen											
GDF3-Regulated Histone Methylation Promotes Adipose Inflammation with Age											
9:06 AM - 9:18 AM Speaker: In Hwa (Ina) Jang											
Adipose Tissue Quality Drives the Male Longevity Disadvantage											
9:18 AM - 9:30 AM Speaker: Laurence Maeyens											
9:30 AM - 10:00 AM	Break Location: Foyer										

10:00 AM - 11:30 AM

Session 10: Growth Hormone, Aging, and Longevity: Where Are We Now?

Location: Cascade A-E (Level 3)

Chair: Liou Sun

The Little Non-Essential Amino Acid That Could: Evaluating the Geroprotective Potential of Dietary Arginine Depletion in C57BL/6J Mice

10:00 AM - 10:12 AM

Speaker: Bailey Knopf

Sexually Dimorphic and Cross-Species Roles of Glucagon and Growth Hormone Signaling in Metabolism and Longevity

10:12 AM - 10:34 AM

Speaker: Liou Sun

Hormones and aging: Metabolic Adaptions in GH Deficiency

10:34 AM - 10:56 AM

Speaker: Holly Brown Borg

Growth Hormone and Aging

10:56 AM - 11:18 AM

Speaker: Andrzej Bartke

Branching Out From Actin Filaments: Actin and Organelle Homeostasis During Aging

11:18 AM - 11:30 AM

Speaker: Ryo Sanabria

11:30 AM - 12:00 PM

Lunch Line Extra Time

Location: Foyer & Cascade A-E (Level 3)

12:00 PM - 1:00 PM

Women in AGE Lunch

Location: Cascade A-E (Level 3)

1:00 PM - 2:00 PM

AGE Business Meeting

Location: Cascade A-E (Level 3)

2:00 PM - 3:00 PM

Awards Ceremony

Location: Cascade A-E (Level 3)