This Continuing Education activity is jointly provided by The Annenberg Center for Health Sciences at Eisenhower and The Gerontological Society of America.

Funding for this conference was made possible, in part by 1 R13 AG055294-01 from the National Institute on Aging. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.
GSA 2016 ANNUAL SCIENTIFIC MEETING | Biological Sciences Program

**WEDNESDAY, NOVEMBER 16**

8:00a.m.–12:00p.m. | Mardi Gras Salon GH (M)
Geroscience 1: A Phylogenetic View of Interventions in Aging

*Pre-Conference Workshop • Separate registration is required.*

**Chair:** Felipe Sierra  
**Faculty:** Rozalyn Anderson, Adam Salmon, Matt Kaeberlein, Steven Austad, Stephen Kornfeld, Henry Jasper, Anne Brunet, Anne Bronikowski

Geroscience aims to delineate the cellular and molecular mechanisms linking aging with chronic diseases and conditions. The long-term goal is to develop interventions that target aging, potentially delaying the onset of these diseases and conditions. In addition to identifying the molecular and cellular underpinnings of aging and how they interact with disease susceptibility, there is a need to develop interventions that can be tested in a variety of animal models. Researchers in the field of aging have an advantage in this domain in that interventions are often tested across the phylogenetic scale, thus providing a solid foundation for testing in humans. This pre-conference presentation will focus on the range of animal models where interventions developed against recognized pillars of aging have been or can be tested. These include the classical invertebrate and rodent models, as well as new ones that might be relevant in translation efforts.

Supported by the Trans-NIH Geroscience Interest Group, National Institute on Aging.

12:30p.m.–4:30p.m. | Studio 8 (M)
Geroscience 2: Vascular Aging and Health

*Pre-Conference Workshop • Separate registration is required.*

**Chair:** Douglas Seals  
**Co-Chair:** Ronald Kohanski  
**Faculty:** Lisa Lesniewski, Kerrie Moreau, Gary Mitchell, Walter Lee Murfee, Steve Segal

This pre-conference continues with the geroscience theme, linking chronic conditions and diseases with basic biological changes. Changes in vasculature with age not only create risks for cardiac failure and disease but also have negative impacts on numerous tissues. The effects range from impacts on whole tissue to the microscale, and in the vessels themselves the dysfunction with age emerges from the endothelium, the smooth muscles, and the extracellular matrix. Several molecular pathways have been identified as underlying the aging-related changes, but new pathways are emerging. Furthermore, new technologies are becoming available for the study of vascular aging, and epidemiological and human population cohort studies are discovering many new insights.

Supported by the Trans-NIH Geroscience Interest Group, National Institute on Aging.

135 4:30p.m.–6:00p.m. | Mardi Gras Salon GH (M)
**Contributed Papers: Epigenetics of Aging and Risk for Age-Related Chronic Diseases**

**Chair:** Joanne Murabito  
**Co-Chair:** Steve Horvath

**Presentations:**

- Interplay Between Multiple Epigenetic Mechanisms and Gene Expression in Human Aging, Karen Connelly, Peng Jin, Hao Wu, Crystal Grant, Kasey Brennan, Joanne Murabito, Andrea Baccarelli
- Recent Updates on the Epigenetic Clock, Steve Horvath
- DNA Methylation is Associated With Incident Cardiovascular Disease, Golareh Agha, Roby Joehanes, Daniel Levy, Andrea Baccarelli
- DNA Methylation Age of Blood Predicts Onset of Lung Cancer in the Women’s Health Initiative, Morgan Levine, H. Hosgood, Brian Chen, Devin Absher, Themistocles Assimes, Steve Horvath
- Relations Between MicroRNA Expression in Blood and Hand Grip Strength in a Community Sample, Joanna Murabito, Jian Rong, Kathryn Lunetta, Kahraman Tatarverdi, Jane Freedman, Daniel Levy, Martin Larson
- DNA Methylation Age of Blood Predicts Onset of Lung Cancer in the Women’s Health Initiative, Morgan Levine, H. Hosgood, Brian Chen, Devin Absher, Themistocles Assimes, Steve Horvath
- Relations Between MicroRNA Expression in Blood and Hand Grip Strength in a Community Sample, Joanna Murabito, Jian Rong, Kathryn Lunetta, Kahraman Tatarverdi, Jane Freedman, Daniel Levy, Martin Larson

**THURSDAY, NOVEMBER 17**

305 8:30a.m.–10:00a.m. | Galerie 3 (M)
**Paper: ESPO/ Biological Sciences Session:**
From Bench to Bedside and Back Again

**Coffee and bagels will be served at 7:30a.m.**

**Chair:** Ted Graber  
**Co-Chair:** Janko Nikolich-Zugich

**Presentations:**

- Interactions of Genetic Risk and Vascular Health on Cognitive Aging Vary by Cognitive Status, G. Peggy McFall, Roger Dixon
- The Association of a Modified Health Aging Index With Mortality Among U.S. Older Adults, Chenkai Wu, Ellen Smit, Jason Sanders, Anne Newman, Michelle Odden
- APOE Genotype Modulates Early and Late Adult Cognitive Outcomes as a Function of Parental Education, Carol Franz, Michael Lyons, William Kremen
- From Bench to Bedside and Back Again, Mark Mattson, Don Calkins, Steve Horvath, Ronald Kohanski
- The Long-Term Goal is to Develop Interventions That Target Aging, Which Potentially Delay the Onset of These Diseases and Conditions, Ronald Kohanski
- The Association of a Modified Health Aging Index With Mortality Among U.S. Older Adults, Chenkai Wu, Ellen Smit, Jason Sanders, Anne Newman, Michelle Odden
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- The Long-Term Goal is to Develop Interventions That Target Aging, Which Potentially Delay the Onset of These Diseases and Conditions, Ronald Kohanski
• Dynamics of Age-Related Changes From C. elegans to Homo sapiens: A Review, Adrien Marck, Geoffroy Berthelet, Vincent Foulonneau, Juliana Antero-Jacquemin, Pascal Hersen, Jean-Marc Di Meglio, Jean-François Toussaint
• Kynurenine Pathway Genes Influence Aging Through Multiple Distinct Molecular Mechanisms, George Sulphin, Grant Backer, Susan Sheehan, Joanne Murabito, Andrew Johnson, Ron Korstanje
• Adipose Tissue Macrophage Dynamics in Elderly SIV-Infected Rhesus Macaques, Marissa Fahlgberg, Yanhui Cai, Marcello Kuroda, Elizabeth Didier
• Adaptation of Muscle Functions and Type of Training in Elderly Overweight and Obese Inactive Men, Maude Dulac Charlotte Pion, Marc Belanger, Pierrette Gaudreau, José A. Morais, Gilles Gouspillou, Mylène Aubertin-Leheudre
• Congestive Obstructive Pulmonary Disease Mouse Model Displays Accelerated Aging Sarcopenic Phenotype, Ted Graber, Brandy Rawls, Bing Tian, William Durham, Allan Brasier, Blake Rasmussen, Christopher Fry

10:30a.m.–12:00p.m. | Grand Ballroom (M) BS
President’s Opening Plenary Session

12:15p.m.–2:15p.m. | Napoleon Ballroom (S) BS
BS Poster Session: Physiology, Immunity, and Aging
Presentations:
152 Acetaminophen Hepatotoxicity in Mice: Effect of Age, Frailty, and Exposure Type, Alice Kane, Sarah Mitchell, John Mach, Anika Huizer-Pajkos, Victoria Cogger, David Le Couteur, Rafael de Cabo, Sarah Hilmer
153 Physiological Dysregulation as Promising Measure of Robustness and Resilience in Aging Studies, Konstantin Arbee, Svetlana Ukraintseva, Olivia Bagley, Matt Duan, Liubov Arbeeva, Ilya Zhibannikov, Alan Cohen, Anatoly Yashin
155 Elie Metchinkoff Rediscovered: Comeback of a Founding Father of Gerontology, Luba Vikhanski
156 Systems Biology of Human Aging—Network Model 2016, John Furber
157 Effect of Age and Calorie Restriction on Voluntary Movement During Adulthood of Rhesus Monkeys, Joseph Kemnitz, Scott Baum, Lindsey Waite, Rozalyn Anderson, Ricki Colman
158 Inherited Exceptional Longevity and Decline in Physical Function Among Older Adults, Emmeline Ayers, Nir Barzilai, Jill Crandall, Sofiya Milman, Joe Verghese
159 Mass Spectrometric Quantification of GDF11 in Cardiovascular Disease, Marissa Schafer, Elizabeth Atkinson, Patrick Vanderboom, Brian Kotajvari, Thomas White, Daniel Mazula, Bergen H. Robert, Nathan LeBarsseur
160 Do Particulate Air Pollutants Accelerate ApoE4 Associated Neurodegeneration?, Mafaiba Cacciottolo, Anian Safar, Constantinos Sioutas, Todd Morgan, Caleb Finch
161 Longitudinal-Survival Models of Cardiometabolic Risk Trajectories: The VA Normative Aging Study, Lewina Lee, Avron Spiro
162 Short-Term Dietary Restriction Rescues Mice From Sepsis and Reduces Inflammation in Adipose Tissue, Marlene Starr, Allison Steele, Donald Cohen, Hiroshi Saito
163 Understanding and Treatment of Hutchinson-Gilford Progeria Syndrome, A Model for Normal Aging, Joanna Bridger, Ural Bikul, Gemma Bourne, Craig Clements, Ian Kill, Evgeny Makarov, David Tree
164 Reconstitution of Young and Aged Dermis in Culture, Ian Kill, Helen Foster, Joanna Bridger, Sunil Pancholi
165 Sympathetic Muscle Innervation Regulates Autophagy and the Neuromuscular Junction With Aging, Anna Carolina Zaia Rodrigues, Zhong-Min Wang, Maria Laura Messi, Tan Zhang, Osvaldo Delbono
166 Preexisting Immunity Not Frailty Predicts Influenza Vaccine Responses Among Older Veterans, Puja Van Epps, Terry Tumpey, Patricia Higgins, Thomas Hornick, Christopher Burant, Brigid Wilson, Stefan Gravenstein, David Canaday
167 Frailty Is a Better Predictor of Inflammation Than Age in Older Veterans, Puja Van Epps, Douglas Oswald, Patricia Higgins, Thomas Hornick, Christopher Burant, Brigid Wilson, Stefan Gravenstein, David Canaday
168 FMO Proteins as Conserved Regulators of Stress Resistance and Longevity, Scott Leiser
169 Cancer Presentations in Individuals Who Survive to Extreme Old Age, Michelle Johnson, Michael Vosine, Stacy Andersen, Lisa Nussbaum, Paola Sebastiani, Rebecca Siliman, Thomas Perls
170 Can a Change in Cognition Predict C-Reactive Protein Levels?, Amber Teflow, Ross Andel, Frank Infurna

5:30p.m.–7:00p.m. | Napoleon Ballroom (S) BS
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810 5:30p.m.–7:00p.m. | Galerie 3 (M) BS
Contributed Papers: The Role of Genes and the Genome in the Biology of Aging

Chair: Stephen Helfand

Presentations:
- A Novel Allelic Variant in a 2q22 Region Confers Risks of Major Human Diseases and Mortality. Alexander Kulminski, Yelena Kernogitski, Irina Cilminskaya, Liang He, Yury Loika, Konstantin Arbeev, Svetlana Ukraintseva, Anatoliy Yashin
- Transposable Element Activation as a Molecular Cause of Aging. Stephen Helfand, Jason Wood, Brian Jones, Nan Jiang
- Genes With Pleiotropic Effects on Aging-Related Traits in Humans. Svetlana Ukraintseva, Liubov Arbeeva, Miao Zhu Li, Matt Duan, Konstantin Arbeev, Igor Akushevich, Alexander Kulminski, Anatoliy Yashin
- The Association of Lifespan and Health Parameters Across Genotypes of Flies and Mice. Jessica Hoffman, William Ratcliffe, Steven Austad, Kathleen Fischer
1:15p.m.–2:15p.m. | Mardi Gras Salon C (M)
Roundtable Discussion: Defining, Measuring, and Understanding Inflamm-Aging

Co-Chairs: Janko Nikolich-Zugich and Vishwa Deep Dixit

Inflammation is an important process that tends to be dysregulated with aging. It is clear that low-grade, persistent inflammation in the course of aging—often called inflam-aging—is a negative factor in nearly all diseases of aging. What is far less clear is the definition of persistent inflammation. This workshop will take an interactive approach by fostering broad discussion among all attendees, led by moderators, and will attempt to define measures and parameters that need to be rigorously tested in order to define persistent inflammation in aging.

1235 2:30p.m.–4:00p.m. | Galerie 3 (M)
Symposium: Inflammation and Immune Processes in Aging

Chair: Janko Nikolich-Zugich

Presentations:
- Innate Mechanisms Governing Endogenous Thymic Regeneration, Jarrod Dudakov
- Identifying Distinct Forms of Autophagy as Targets to Improve Immune Function in Aging, Fernando Macian
- The Characterization of Skin-Resident Varicella Zoster Virus Specific T Cells During Aging, Arne Akbar
- Pros and Cons of Inhibiting Inflammation in Aging and Aging-Related Diseases, Nicolas Musi
- Cellular Senescence: A Driver of Aging, Inflammation, and Metabolic Decline, Nathan LeBrasseur

1255 2:30p.m.–4:00p.m. | Grand Ballroom A (S)
Symposium: A New Lens on the National Institutes of Health—Funding Opportunities for Early-Career Scientists

Chair: Marie Bernard

Discussant: Richard Hodes, Robin Barr

Presentations:
- NIA/NIH Funding Opportunities for Early-Career Scientists, Marie Bernard
- Update on NIA Funding Mechanisms, Marie Bernard

1380 4:30p.m.–6:00p.m. | Grand Ballroom A (S)
Symposium: NIA Symposium for Established Researchers—A Chat With NIA Senior Leadership

Chair: Marie Bernard

Discussant: Richard Hodes, Evan Hadley, John Haaga, Felipe Sierra, Robin Barr

Presentations:
- The State of NIA Budget and Planning, Marie Bernard
- A Conversation With NIA Senior Leadership, Marie Bernard

4:30p.m.–7:00p.m. | Galerie 3 (M)
Irving S. Wright & Vincent Cristofalo “Rising Star” Award Presentation, Lecture, and Reception

Vincent Cristofalo “Rising Star” Award in Aging Research Lecture: Luigi Fontana, MD, PhD, Washington University in St. Louis & Brescia University, will present the award lecture, titled “Promoting Health and Longevity Through Diet: Metabolic and Molecular Mechanisms.”

Irving S. Wright Award of Distinction Lecture: S. Jay Olshansky, PhD, University of Illinois at Chicago, will present the 2016 lecture, titled “In Pursuit of the Longevity Dividend.”

These awards are given by American Federation for Aging Research (AFAR) Inc.

SATURDAY, NOVEMBER 19

1495 8:00a.m.–9:30a.m. | Galerie 3 (M)
Symposium: Nutritional Interventions in Aging: Healthspan and Disease Vulnerability

Chair: Rozalyn Anderson

Presentations:
- Protein and Glucose Restriction, Growth Signaling, and Aging: From Yeast to Humans, Valter Longo
- Mechanisms Linking Low-Protein, High-Carbohydrate Diets With Age-Related Health, David Le Couteur, Samantha Solon-Biet, Victoria Cogger, Rahul Gokarn, Aisling McMahon, David Raubenheimer, Stephen Simpson
- Findings From a Two-Year Randomized Controlled Trial of Human Caloric Restriction, Sai Krupa Das, Susan Roberts, Eric Ravussin, John Holloszy, Evan Hadley, Sergei Romashkan, William Kraus
- Low-Grade Chronic Adipose Inflammation at the Interface of Nutrition, Obesity, and Aging, Mario Kratz

11:30a.m.–12:45p.m. | Mardi Gras Salon (M)
Kent and Kleemeier Lectures

The Donald P. Kent Award Lecture will feature an address by the 2015 Kent Award recipient, Eric R. Kingson, PhD, of Syracuse University, titled “Send a Gerontologist to Congress?” The Kent Award is given annually to a member of The Gerontological Society of America who best exemplifies the highest standards of professional leadership in gerontology through teaching, service, and interpretation of gerontology to the larger society.

The Robert W. Kleemeier Award Lecture will feature an address by the 2015 Kleemeier Award recipient, Kyriakos “Kokos” S. Markides, PhD, of the University of Texas Medical Branch at Galveston, titled “Immigrant Health and Aging in a Changing World.” The Kleemeier Award is given annually to a member of The Gerontological Society of America in recognition for outstanding research in the field of gerontology.

1720 1:30p.m.–3:00p.m. | Galerie 3 (M)
Symposium: From Paleo to Postmodern: Human Aging and Healthspan in Deep Historical Context

Co-Chairs: Caleb Finch and Donna Holmes

Presentations:
- From Us to Apes: Assessing Frailty in Medieval London Skeletons and Allostatic Load in Gorillas, Doug Crews, Ashley Edes, Kathryn Marklein
- Advances in Research on the Natural History of Human Aging, Hillard Kaplan, Jonathan Steiglitz, Benjamin Trumble, Bret Beheim, Caleb Finch, Gregory Thomas, Chris Rowan, Michael Gurven
- Setting the Second Stage: The Evolution of Menopause and Post-Reproductive Life, Lynette Leidy Sievert

1870 3:30p.m.–5:00p.m. | Galerie 3 (M)
Fondation Ipsen Longevity Prize Award Symposium by Kaare Christensen: Genes and Environment in Human Aging and Longevity

Chair: Tom Kirkwood

Co-Chair: Yves Christen

Discussant: Jean-Marie Robine
2025 5:30p.m.–7:00p.m. | Galerie 3 (M) BS

Paper: Physiological and Immune Processes in Aging
Chair: Graham Pawelec
Presentations:
- WDR23 is an Ancient Regulator of NRF2-Dependent Cytoprotection in Humans, Sean Curran, Jacqueline Lo
- Age-Related Changes in Circulating Osteoprogenitor (COP) Cells: The COP Study, Gustavo Duque, Piumali Gunawardene, Ahmed Al-Saedi, Pushpa Suriyaarachchi, Oddom Demontiero
- Ten-Year Functional Decline Among Adults With Diabetes and Cognitive Impairment, Pearl Lee, Jinkyung Ha, Lillian Min, Christine Cigolle
- Reference MRI Values for Cardiac Left Ventricular Functional Changes With Aging in the Baboon Model, Geoffrey Clarke, Anderson Kuo, Cun Li, Hillary Huber, Junfei Li, Peter Nathanielis
- Metabolomic Profiling With Lifespan Extending Dietary Interventions in C57BL/6 Mice, Victoria Gibbs, Rachel Brewer, Nathan Miyasaki, Daniel Smith

SUNDAY, NOVEMBER 20

2165 8:00a.m.–9:30a.m. | Galerie 3 (M) BS

Symposium: mTOR Pathways as Targets for Intervention in Aging and Disease
Chair: Matt Kaeberlein
Presentations:
- Effects of Transient Mid-Life Rapamycin Treatment on Lifespan and Healthspan, Matt Kaeberlein
- Beyond Rapamycin—Selective Inhibition of mTORC1 to Extend Healthspan and Lifespan, Dudley Lamming
- Rapamycin Rejuvenates Cardiac Function by Acute, Short Term, and Persistent Effects, Peter Rabinovitch, Ying Ann Chiao, Ellen Quarles
- mTOR Inhibition Improves Immune Function in the Elderly, Joan Mannick, Giuseppe Del Giudice, Jens Praestgaard, Baisong Huang, Michael Lanetto, Holden Maecker, David Glass, Lloyd Klickstein
- TOR-Dependent Neuronal and Vascular Aging as Drivers of Alzheimer’s Disease, Veronica Galvan

2300 10:00a.m.–11:30a.m. | Galerie 3 (M) BS

Symposium: Human CMV Infection: Immunosenescence, HIV, and Intervention
Chair: Sean Leng
Co-Chair: Joseph Margolick
Discussant: Graham Pawelec
Presentations:
- Influence of Chronic CMV Infection on Peripheral Immune Cell Phenotypes, Frailty and Mortality, Graham Pawelec, Catharina Mathei, David Goldeck
- In Vitro Testing of Potent Anti-CMV Agents: Development of Novel Therapeutic Intervention, Huifen Li, Xiaoxian Ning, Genxiang Mao, Sean Leng
- CMV-Induced T-Cell Responses, Circulating Markers of Inflammation, and Frailty in HIV- and HIV+ Men, Joseph Margolick, Jay Bream, Tricia Nilles, Huifen Li, Susan Langan, Sean Leng

Minority Investigator Travel Awardees

- He Zhou
  Baylor College of Medicine
- Ganesh Babulal
  Washington University School of Medicine at St. Louis
- Heenwon Jung
  Korea Advanced Institute of Science and Technology
- Porsha Howell
  University of Wisconsin Madison

From The Gerontological Society of America

A comprehensive look at the molecular and cellular processes that underlie aging.

MOLECULAR AND CELLULAR BIOLOGY OF AGING

Jan Vijg, Judith Campisi, and Gordon Lithgow, editors

This groundbreaking e-book focuses on providing insights into basic principles and common characteristics of aging across species or animal groups.

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Follow us on...
The Gerontological Society of America® (GSA) Publications Committee is seeking nominations for the position of Editor-in-Chief of the Biological Sciences section of The Journals of Gerontology, Series A: Biological Sciences and Medical Sciences.

The Journal of Gerontology: Biological Sciences and Medical Sciences publishes articles representing the biological aspects of aging in areas such as biochemistry, biodemography, cellular and molecular biology, comparative and evolutionary biology, endocrinology, exercise sciences, genetics, immunology, morphology, neuroscience, nutrition, pathology, pharmacology, physiology, vertebrate and invertebrate genetics, and biological underpinnings of late life diseases.

The 4-year term will become effective January 1, 2018. The Editor-in-Chief makes appointments to the journal’s Editorial Board and develops policies in accordance with the scope statement prepared by the GSA Publications Committee and approved by the GSA Council. The Editor-in-Chief works with reviewers and has the final responsibility for the acceptance of articles for his/her journal using the online platform, ScholarOne Manuscripts. The editorship is a voluntary position with an Institutional allowance. Candidates must be dedicated to developing a premier scientific journal.

Nominations and applications may be made by the candidate or others, and must be accompanied by the candidate’s curriculum vitae and a letter of intent.

All nominations and applications must be emailed to Judie Lieu at jlieu@geron.org by March 31, 2017.
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