

Friday, Pre-Meeting: June 3, 2011

LATE ONSET INTERVENTION AGAINST AGING: TOOLS, APPROACHES, IMPACT

Chair: Aubrey de Grey

- 8:00 am – 8:50 am** **Pre-Conference Registration and Continental Breakfast**
- 8:50 am – 10:00 am** **SESSION I**
THE BIOTECHNOLOGICAL PROMISE OF LATE-ONSET INTERVENTIONS IN AGING
- 8:30 am – 9:00 am 1. Aubrey de Grey, SENS Foundation
Postponing Aging Starting in Middle Age: Risky Research, Rampant Rewards
- 9:00 am – 9:30 am 2. Walter Funk, BioTime
The Potential and Limitations of Personalized Medicine for Aging
- 9:30 am – 10:00 am 3. Anthony Atala, Wake Forest University
The Promise of Regenerative Medicine for Aging
- 10:00 am – 10:30 am** ***BREAK***
- 10:30 am – 12:00 pm** **SESSION II**
STATUS AND PROSPECTS FOR SLOWING AGING STARTING LATE IN LIFE
- 10:30 am – 11:00 am 4. Michael Rae, SENS Foundation
Late-Onset Calorie Restrictions in Rodents and Humans
- 11:00 am – 11:30 am 5. David Sharp, University of Texas Health Sciences Center San Antonio
Rapamycin: A Late-Onset Calorie Restriction Mimetic?
- 11:30 am – 12:00 pm 6. David Harrison, Jackson Labs
Late Versus Early Onset Intervention Studies in Animal Models
- 12:00 pm – 1:00 pm** ***LUNCH BREAK (on your own)***
- 1:00 pm – 3:00 pm** **SESSION III**
PROGRESS TOWARDS REVERSING AGING STARTING LATE IN LIFE
- 1:00 pm – 1:30 pm 7. Jacques Mathieu, Rice University
Pre-Emptying Atherosclerosis by Eliminating Stored Oxysterols
- 1:30 pm – 2:00 pm 8. Megan Smithey, University of Arizona
Simultaneous Repair of Both Major Components of Immunosenescence

- 2:00 pm – 2:30 pm 9. Zhenyu Ju, Hangzhou Normal University
Do Bone Marrow Stem Cells Need to Express Telomerase?
- 2:30 pm – 3:00 pm 10. Jan Vijg, Albert Einstein College of Medicine
Do Mice Accumulate Epimutations in the Brain During Adulthood?
- 3:00 pm – 3:30 pm* **BREAK**
- 3:30 pm – 5:30 pm** **SESSION IV**
SOCIETAL IMPACT OF LATE-ONSET INTERVENTIONS STUDIES IN ANIMAL MODELS
- 3:30 pm – 4:00 pm 11. Natalia Gavrilova, University of Chicago
How Much Would Late-Onset Interventions in Aging Affect Demographics?
- 4:00 pm – 4:30 pm 12. Aubrey de Grey, SENS Foundation
Impact of Biomedical Compression of Morbidity: Relevance of Age and Onset
- 4:30 pm – 5:00 pm 13. TBA
TBA
- 5:00 pm – 5:30 pm **PANEL DISCUSSION**
How Can Research on Late-Onset Interventions in Aging be More Prioritized?

PRE-CONFERENCE ADJOURNS

- 6:30 pm – 8:00 pm** **AAA Conference Registration**
AAA WELCOME RECEPTION

Saturday, June 4, 2011

MECHANISMS OF AGING: EMERGING CONCEPTS

*Chair: Holly Brown-Borg
University of North Dakota*

7:30 am **Continental Breakfast**

8:30 am – 8:40 am **Welcome and Opening Remarks**
*Holly Brown-Borg, University of North Dakota
President American Aging Association*

8:40 am – 9:40 am **Keynote Address:**

Norman Sharpless
University of North Carolina-Chapel Hill

The Amazing INK4a/ARF Locus and Human Aging

9:45 am – 12:15 pm **Session 1**
MICRORNA AND AGING
Chair: Heidi Scrable, Mayo Clinic, Rochester, MN

9:45 am – 10:15 am 14. Frank Slack, Yale University
MicroRNAs and Aging in *C. elegans*

10:15 am – 10:45 am 15. Izumi Horikawa, National Cancer Institute
The P53-MicroRna Connection: Clues From Cellular Senescence to Organismal Aging

10:45 am – 11:15 am **BREAK**

11:15 am – 11:45 am 16. Scott Hammond, University of North Carolina
MicroRNAs in Development and Disease

11:45 am – 12:15 pm 17. Heidi Scrable, Mayo Clinic, Rochester
Epigenetic Modifiers in Stem Cells

12:15 pm – 1:45 pm **Vincent Cristofalo Memorial Rising Star Award and Lecture**

Matt Kaeberlein
University of Washington

Molecular Mechanisms Linking Diet, Disease and Aging

Sponsored by:
The American Federation for Aging Research (AFAR)
In collaboration with
The Glenn Foundation for Medical Research
Margaret F. Cristofalo
The Gerontological Society of America

1:45 pm – 3:45 pm

Session 2

COMPARATIVE BIOLOGY OF AGING

Chair: Shelley Buffenstein

1:45pm – 2:15 pm

18. Shelley Buffenstein

Lessons on Longevity from the Longest Living Rodent

2:15 pm – 2:45 pm

19. Mary Ann Ottinger, University of Maryland

Role of Endocrine Hormones in Vertebrate Aging

2:45 pm – 3:15 pm

20. Woody Wright, University Texas Southwestern Medical Center at Dallas

Comparative Biology of Telomeres and Their Role in Species Longevity

3:15 pm – 3:45 pm

21. Zoltan Ungvari, University of Oklahoma Health Sciences Center

Animal Models, Cardiovascular Function and Aging

3:45 pm – 4:15 pm

BREAK

4:15 pm - 5:15 pm

Submitted Papers Sessions 3A and 3B are Dual Sessions

SUBMITTED PAPERS SESSION 3A

Chair:

4:15 pm – 4:30 pm

22. Graham Pawalec, University of Tuebingin

Road-Mapping European Aging Research: The Next Decade of EAR

4:30 pm – 4:45 pm

23. Speaker

TITLE

4:45 pm – 5:00 pm

24. Speaker

TITLE

5:00 pm – 5:15 pm

25. Speaker

TITLE

4:15 pm – 5:15 pm

SUBMITTED PAPERS SESSION 3B

Chair:

4:15 pm – 4:30 pm

26. Speaker

TITLE

4:30 pm – 4:45 pm

27. Speaker

TITLE

4:45 pm – 5:00 pm

28. Speaker

TITLE

5:00 pm – 5:15 pm

29. Speaker

TITLE

5:30 pm – 7:00 pm **Poster Session 1**
Competition for Glenn Award and Nicolai Prize

5:30 pm – 7:00 pm **COCKTAIL RECEPTION**

7:00 pm – 8:30 pm **Special Student Session: Data Blitz**

Sponsored by
The American Aging Association
and The Gerontological Society of America

7:00 pm – 10:00 pm **AGE BOARD OF DIRECTORS DINNER MEETING**

Sunday, June 5, 2011

7:30 am Continental Breakfast

8:30 am – 10:30 am Session 4
STRESS RESISTANCE IN AGING & DISEASE
Chair: Valter Longo, University of Southern California

SPONSORED BY
THE ELLISON MEDICAL FOUNDATION

8:30 am – 9:00 am 30. Valter Longo, University of Southern California
Differential Cellular Protection and Sensitization in Cancer Treatment

9:00 am – 9:30 am 31. Keith Blackwell, Harvard Medical School
Mechanisms Through Which TORC1 Signaling and Rapamycin Influence *C. elegans* Longevity

9:30 am – 10:00 am 32. James Mitchell, Harvard School of Public Health
Dietary Amino Acid Restriction, Stress Resistance and Longevity

10:00 am – 10:30 am 33. Rafael de Cabo, National Institute on Aging
Stress Resistance by NRF2: Its Role in Calorie Restriction and Aging

10:30 am – 11:00 am BREAK

11:00 am – 12:30 pm Session 5
TRANSLATIONAL AGING RESEARCH (Arthur Balin Session)
Chair: James Kirkland
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11:00 am – 11:30 pm 34. Nathan LeBrasseur, Mayo Clinic, Rochester
Muscling Into Translational Research: From Mighty Mice to Men

11:30 am – 12:00 pm 35. Jeremy Walston, Johns Hopkins University
TBA

12:00 pm – 12:30 pm 36. James Kirkland, Mayo Clinic, Rochester
Low Hanging Fruit: Early Opportunities to Translate Advances from the Basic Biology of Aging into Clinical Applications

12:30 pm – 1:00 pm AMERICAN AGING ASSOCIATION AWARDS LUNCHEON
(ALL ATTENDEES ARE INVITED TO ATTEND)

Awards Presentations:
Distinguished Achievement Award
Denham Harman Award

1:00 pm – 2:00 pm **PLENARY SESSION: DENHAM HARMAN AWARD LECTURE**

Sessions 6A and 6B are Dual Session

2:00 pm – 5:00 pm

**Session 6A
NATHAN SHOCK CENTER SYMPOSIUM**

Sponsored by

The National Institute on Aging

Nathan Shock Centers of Excellence

Chair: Felipe Sierra, PhD, Director, Division of Aging Biology, National Institute on Aging

2:00 pm – 2:30 pm

37. Carolos J. Orihuela, University of Texas Health Sciences Center
Inflammaging and Cellular Senescence Prime the Lungs for Bacterial Pneumonia

2:30 pm – 3:00 pm

38. Dana L. Miller, University of Washington
Effects of Hydrogen Sulfide on Protein Homeostasis and Aging

3:00 pm – 3:30 pm

BREAK

3:30 pm – 4:00 pm

39. Gary A. Churchill, The Jackson Laboratory
New Mouse Resources for Genetic Research in Aging

4:00 pm – 4:30 pm

40. Scott Pletcher, University of Michigan
Neurosensory Modulation of Physiology and Aging in Drosophila

4:30 pm – 5:00 pm

41. Derek M. Huffman, Albert Einstein College of Medicine
IGF-1 Action in the Brain on Insulin Sensitivity and Body Fat Distribution with Aging

2:00 pm – 5:00 pm

**Session 6B
TRANSATLANTIC SYMPOSIUM**

Chair: Richard Faragher

2:00 pm – 2:30 pm

BSRA Korenchevsky Award Presentation

42. Elain Emmerson, University of Manchester
Estrogen Receptor Mediated Effects on Wound Healing in the Elderly

2:30 pm – 3:00 pm

43. Angela Sheerin, University of Brighton
Is Lifespan in a long-Lived Mutant Mouse Strain Limited by Cell Senescence?

3:00 pm – 3:30 pm

BREAK

3:30 pm – 4:00 pm

44. Deborah Dunn-Walters, King College London
The B Cell Repertoire in Ageing

4:00 pm – 4:30 pm

45. Gregg Scutt, University of Brighton
Ageing in a Defined Neuronal Population

4:30 pm – 5:00 pm

46. TBA
TBA

5:00 pm – 5:50 pm

PLENARY SESSION: SPECIAL LECTURE

Thomas Perls, Boston University
The Increasing Genetic Contribution to Exceptional Longevity
with Increasing Age Beyond 100 Years

Sponsored by
The Glenn Foundation

6:00 pm – 6:30 pm

AAA Business Meeting – **Open to all members**

6:30 pm – 8:00 pm

POSTER SESSION II
Competition for Glenn Award and Nicolai Prize

6:30 pm – 8:00 pm

COCKTAIL RECEPTION

Monday, June 6, 2011

7:00 am – 8:00 am

Continental Breakfast

8:00 am – 10:00 am

Sessions 7A and 7B are Dual Session

8:00 am – 10:00 am

SESSION 7A: THE ENVIRONMENT AND AGING

Chairs: J. Christopher Corton and Robert MacPhail, U.S. Environmental Protection Agency

8:00 am – 8:30 am

47. J. Christopher Corton, U.S. Environmental Protection Agency
Characterization of the Impact of Life Stage on Gene-Chemical Interactions in the Liver

8:30 am – 9:00 am

48. Staci Bilbo, Duke University
Implications of Early-Life Experience for Cognitive Function Throughout the Lifespan

9:00 am – 9:30 am

49. John Hong, National Institutes of Environmental Health Sciences
Inflammation-Mediated Degeneration of Dopaminergic Neurons: Mechanisms, Interventions and Relevance to Parkinson's Disease

9:30 am – 10:00 am

50. Robert MacPhail, U.S. Environmental Protection Agency
Aging and the Environment: Importance of Variability Issues in Understanding Risk

10:00 am -10:30 am

BREAK

8:00 am-10:00 am

SESSION 7B: CARDIOVASCULAR AGING

Chair: Julie Mattison, National Institute on Aging

8:00 am – 8:30 am

51. Carol A. Shively, Wake Forest University
Psychosocial Stress, Disease and Aging in Female Nonhuman Primates

8:30 am – 9:00 am

52. Anna Csiszar, University of Oklahoma Health Sciences Center
Vascular Oxidative Stress in Aging: A Homeostatic Failure Due to Dysregulation of Nrf2-Mediated Antioxidant Response

9:00 am – 9:30 am

53. Julie Mattison, National Institute on Aging
Resveratrol: Protecting the Heart and Vessels of Mice and Monkeys

9:30 am – 10:00 am

54. Ed Lakatta, National Institute on Aging
The Stress of Arterial Aging Viewed from the Arterial Wall

10:30 am – 12:00 pm	SESSION 8: TRIBUTE TO JIM JOSEPH AND MARK A. SMITH <i>Chair: Don Ingram, Pennington Biomedical Research Center</i>
10:30 am – 11:00 am	55. Donald Ingram, Pennington Biomedical Research Center Jim Joseph: Davy Crockett at the Frontier of Neurogerontology
11:00 am – 11:30 am	56. Barbara Shukitt-Hale, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University Food For Thought: What Jim Joseph Taught Me About Aging and Nutrition
11:30 am – 12:00 pm	57. Gemma Casadesus, Case Western Reserve University TBA
12:00 pm – 12:30 pm	58. George Perry, The University of Texas at San Antonio Chrysler Newport's and Triangles: Mark Smith's Legacy
12:30 pm – 1:00 pm	AWARDS CEREMONY (TRAINEES)
1:00 pm	MEETING ADJOURNS