

Program Schedule

Friday, June 7, 2002

5:00 – 6:00 pm **AGE Meeting Registration Begins**

6:00 – 8:00 pm **WELCOME RECEPTION**

Saturday, June 8, 2002

7:00 am **AGE Meeting Registration**

8:00 am **AGE Meeting Sessions Begin**

8:00 – 8:15 am Opening Remarks
Paula C. Bickford, PhD, President, American Aging Association

8:15 – 10:15 am

Session 1: Mitochondria and Aging

Chair: Judd Aiken, PhD, University of Wisconsin

8:15 am Rajindar Sohal, PhD, University of Southern California
1. Mitochondrial Contributions to the Aging Process

8:45 am Konstantin Khrapko, PhD, Harvard University
2. Cell-by-Cell Analysis of mtDNA Mutations and the Mitochondrial Theory of Aging

9:15 am Judd Aiken, PhD, University of Wisconsin
3. Mitochondrial DNA Deletion Mutations and Sarcopenia

9:45 am Simon Melov, PhD Buck Institute
4. Mitochondrial Oxidative Stress and Therapeutics

10:15 – 10:30 am **B R E A K**

10:30 am – 12:30 pm

Session 2: Molecular Outcomes of Oxidative Stress and Aging: Molecules to Humans

Chair: Giulio Tagliatela, PhD, University of Texas Medical Branch

10:30 am Ben Van Houten, PhD, NIEHS
5. Genotoxicity of Electron Transport Inhibitors: Models of Neurodegenerative Diseases

11:00 am Giulio Tagliatela, PhD, University of Texas Medical Branch
6. Free Radical-Dependent bcl-2/NFκB Interactions in the Aged CNS

11:30 am Jiankang Liu, PhD, University of California

7. Damage and Increase Mitochondrial Enzyme Activity and Binding Affinity in Old Rats

Saturday, June 8, 2002 Continued

12:00 pm Anne C. Andorn, MD, University of Texas Medical Branch
8. Differential Responses to Oxidative Stress in the Brain of Normal Aged Humans Versus Alzheimer's Disease

12:30 – 1:30 pm **LUNCH** (on your own)

1:30 – 3:30 pm

Session 3: Inflammatory Mechanisms in Aging: Possible sites for Intervention?

Chair: David Morgan, PhD, University of South Florida

1:30 pm Dave Morgan, PhD, University of South Florida
9. Inflammatory Mechanisms in Brain Aging: Possible Sites for Intervention?

2:00 pm Gary Wenk, PhD, University of Arizona
10. The Influence of Age and Gender Upon the Effects of Chronic Neuroinflammation

2:30 pm Gary Landreth, PhD, Case Western Reserve University
11. Inflammatory Mechanisms in Alzheimer's Disease: Microglial Signaling and Transcriptional Regulation

3:00 pm Steve Barger, PhD, University of Arkansas for Medical Sciences
12. Amyloid Precursor Protein and Activation of Microglia

3:30 – 3:50 pm **BREAK**

3:50 – 5:00 pm

PAPER SESSION

Chair: Paula C. Bickford, PhD, University of South Florida

3:50 pm James Harper, PhD, University of Michigan
13. Characterization of Long-lived Wild-derived House Mice (Mus musculus)

4:05 pm Christy Carter, PhD, Wake Forest University School of Medicine
14. Physical Performance in Aged Rats Predicts Longevity: Implications for Assessing Preclinical Interventions

4:20 pm Holly Van Remmen, PhD, University of Texas Health Science Center

15. Analysis of Changes in Mitochondrial Proteins with Age in Wildtype and MNSOD Knockout Mice

4:35 pm

Aubrey de Grey, PhD, University of Cambridge

16. A Natural Model of Population Heterogeneity Fits Observed Mortality Distributions, Including Their Tail

5:00 pm

ADJOURN FOR THE DAY

Saturday, June 8, 2002 Continued

5:30 – 8:00 pm

The American Aging Association's Annual Board of Directors Dinner Meeting

Sunday, June 9, 2002

7:00 am

AGE Meeting Registration

8:00 am – 12:20 pm

Session 4: Cognition in Aging: Mechanisms and Interventions

Chairs: Paula C. Bickford, PhD and M. Claire Cartford, PhD, University of South Florida

Part 1: Associative Learning

8:00 am

William Greenough, PhD, University of Illinois

17. Exercise, Learning and the Aging Brain

8:30 am

John F. Disterhoft, PhD, Northwestern University Medical School

18. Mechanisms of Associative Learning in Young and Aging Hippocampus

9:00 am

Paula C. Bickford, PhD, University of South Florida

19. Teaching an Old Rat New Tricks: Cerebellar Motor Learning

9:30 am

Diana Woodruff-Pak, PhD, Temple University

20. Parallels in Age-Related Changes in Learning and the Cerebellum

10:00 – 10:20 am

B R E A K

Part 2: Cognition in Aging

10:20 am

Michela Gallagher, PhD, Johns Hopkins University

21. Cognitive Deficits in Aging: Changes in Circuits Without Loss of Neurons

10:50 am

Bill Milgram, PhD, University of Toronto

22. Preservation of Cognitive Function in Aged Canines: Collaborative Effects of an Antioxidant Enriched Diet and Cognitive Experience

11:20 am Carol Barnes, PhD, University of Arizona.

23. The Aging Hippocampus, Molecules, Maps, and Memory in Rats and Non-Human Primates

11:50 am Mary Lou Voytko, PhD, Wake Forest University

24. Parallels in Cognitive Function of Aged Monkeys and Humans

12:20 – 2:00 pm **LUNCH**

Sunday, June 9, 2002 Continued

2:00 – 3:30 pm

Session 5: The Use Of Antioxidants To Maximize Brain Function

Chair: Barbara Shukitt-Hale, PhD, Tufts University

Co-Sponsored by US Highbush Blueberry Council

2:00 pm

Lester Packer, PhD, University of California

25. Brain Gene Expression is Modified by Gingko Biloba Extract EGb 761 and in α -Tocopherol Deficient Mice

2:30 pm

Marina Lynch, PhD, Trinity College, Dublin, Ireland

26. Impairment in Synaptic Plasticity in the Rat Hippocampus Can be Reversed by Dietary Manipulation: A Role for Interleukin-1 β

3:00 pm

Douglas Rosene, PhD, Boston University School of Medicine

27. Age-related changes in Cognition and the Brain of the Rhesus Monkey: Evidence for Inflammatory Processes in White Matter

3:30 – 3:50 pm

BREAK

3:50 pm

Mark Smith, PhD, Case Western Reserve University

28. Signaling Oxidative Stress in Alzheimer Disease

4:20 – 5:00 pm

PAPER SESSION

Chair: Mark A. Lane, PhD, National Institute on Aging

4:20 pm

Gregory Brewer, PhD, Southern Illinois University School of Medicine

29. Mitochondrial Role in Age-Related Responses of Neurons to A-Beta and Glutamate

4:40 pm

Norman Wolf, PhD, University of Seattle

30. Oxidative Damage and the Mitochondrial Membrane in Age-related Cataract

5:00 – 5:45 pm

Business Meeting of the American Aging Association
Open to All Members

6:00 – 8:00 pm

Poster Presentation and Cocktail Reception

Competition for Nicolai Prize and Glenn Award

Monday, June 10, 2002

7:00 am

AGE Conference Registration

8:00 – 10:00 am

Session 6: Estrogen Neuroprotection: From Molecules to Humans

*Chair: James W. Simpkins, PhD, University of North Texas
Health Science Center*

8:00 am

James W. Simpkins, PhD, University of North Texas Health Science Center

31. Structure-Neuroprotective Activity Relationships Among Estrogens and Related Molecules

8:30 am

Darlene Coleman Deecher, PhD Women's Health Research Institute

32. Development of Model Systems to Assess the Role of Estrogens In Neuroprotection.

9:00 am

Roberta Brinton, PhD, University of Southern California

33. Unifying Mechanism of Estrogen-Induced Neuroprotection

9:30 am

Victor Henderson, PhD, University of Arkansas

34. Cognitive Effects of Estrogens in Normal Women and Alzheimer's Disease Subjects

10:00 – 10:20 am

B R E A K

10:20 – 11:20 am

Annual Hayflick Award Lecture

Molecular Genetic Studies of Replicative Senescence: a Role for Chromatin Re-modelling

Olivia M. Pereira-Smith, PhD, University of Texas Health Science Center

Co-sponsored by Michael Fossel, M.D., PhD

11:30 am – 12:15 pm
PAPER SESSION

Chair: Mark A. Lane, PhD, National Institute on Aging

11:30 am

Kathy Magnusson, PhD, Colorado State University

35. Regional Differences in Age-Related Changes in NMDA Receptor Expression Within the Prefrontal Cortex and Hippocampus

11:45 am

Agnes Lacreuse, PhD, Emory University

36. Effect of Age and Estradiol on Fine Motor Skills in Female Rhesus Monkeys

12:00 pm

James Stoll, PhD, Texas Tech University Health Science Center

37. Estrogen Effects on Septal Cholinergic Neurons in Culture

Monday, June 10, 2002 Continued

12:15 pm

Annual Award Luncheon

2:00 pm

Denham Harman Award Lecture

Caloric Restriction: New Tires on an Old Model

Donald Ingram, PhD, National Institute of Health

3:00 pm

C O N F E R E N C E A D J O U R N S

Thank you for your attendance and participation!