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  BREAK

10:30 am – 12:30 pm  Session 2: Molecular Outcomes of Oxidative Stress and Aging:
Molecules to Humans
Chair: Giulio Taglialatela, 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 Taglialatela, 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


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 A D J O U R N FOR T H E D A Y

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


10:50 am Bill Milgram, PhD, University of Toronto

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-1β

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 **BREAK**

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
CONFERENCE ADJOURNS

Thank you for your attendance and participation!