

# **AGING NON-HUMAN PRIMATES: MODELS, PROGRESS & FUTURE DIRECTIONS**

*Chair: Steven Kohama, PhD  
Oregon National Primate Research Center*

## **FRIDAY, MAY 30, 2008**

7:00 am                      Registration  
                                    Continental Breakfast

8:00 am                      Pre-conference Welcome and Opening Remarks –  
*Chair: Steven Kohama, PhD, Oregon National Primate Research  
Center*

8:05 am – 10:05 am        **SESSION I**  
**OVERVIEW OF AGING NON-HUMAN PRIMATE MODELS**

8:05 am                      James Herndon, PhD, Yerkes National Primate Research Center  
**COMPARATIVE STUDIES OF AGING IN NON-HUMAN  
PRIMATES.**

8:35 am                      Todd Preuss, PhD, Yerkes National Primate Research Center  
**THE UNSCALABLE *HOMO SAPIENS*.**

9:05 am                      Betsy Ferguson, PhD, Oregon National Primate Research  
Center  
**GENETIC RESOURCES FOR THE STUDY OF AGING PRIMATES.**

9:35 am                      Suzette Tardif, PhD, University of Texas Health Science Center  
San Antonio  
**WHY DO PRIMATES LIVE SO LONG?**

*10:05 am - 10:30 am        B R E A K*

10:30 am – 12:30 pm       **SESSION II**  
**BRAIN ENDOCRINE & REPRODUCTIVE SYSTEMS**

10:30 am                      Martha Neuringer, PhD, Oregon National Primate Research Center  
**BEHAVIORAL EFFECTS OF HORMONE REPLACEMENT IN  
RHESUS MONKEYS.**

11:00 am                      Peter R. Rapp, PhD, Mount Sinai School of Medicine  
**NEUROCOGNITIVE AGING: MONKEY TALES.**

- 11:30 am John H. Morrison, PhD, Mount Sinai School of Medicine  
NEURAL SUBSTRATES OF HORMONE TREATMENT.
- 12:00 pm Steven Kohama, PhD, Oregon National Primate Research Center  
REPRODUCTIVE AGING AND HORMONE EFFECTS IN THE  
BRAIN.
- 12:30 pm – 1:30 pm LUNCH B R E A K (on your own)*
- 1:30 pm – 3:30 pm **SESSION III**  
**BRAIN AND COGNITIVE BEHAVIOR**

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**Friday, May 30, 2008 continued**

- 1:30 pm Mark Moss, PhD, Boston University  
AGE-RELATED IMPAIRMENTS IN MEMORY AND EXECUTIVE  
FUNCTION IN THE RHESUS MONKEY.
- 2:00 pm Brian Ramos, PhD, Yale University School of Medicine  
DISINHIBITION OF cAMP-HCN SIGNALING IN THE AGING  
PREFRONTAL CORTEX.
- 2:30 pm Douglas Rosene, PhD, Boston University  
NEUROBIOLOGICAL SUBSTRATES OF AGE-RELATED COGNITIVE  
IMPAIRMENT.
- 3:00 pm Carol Barnes, PhD, University of Arizona  
ENSEMBLE RECORDINGS AND MRI ANALYSES IN  
BEHAVIORALLY CHARACTERIZED YOUNG AND OLD RHESUS  
MACAQUES
- 3:30 pm – 4:00 pm Break*
- 4:00 pm – 6:00 pm **SESSION IV**  
**BRAIN & MOTOR / SLEEP / CIRCADIAN RHYTHMS / FUTURE  
DIRECTIONS**
- 4:00 pm Don Marshall Gash, PhD, University of Kentucky College of  
Medicine  
AGE ASSOCIATED CHANGES IN RHESUS CNS  
MITOCHONDRIAL RESPIRATION, GENE EXPRESSION AND  
MOTOR FUNCTIONS.
- 4:30 pm Irina Zhdanova, MD, PhD, Boston University School of  
Medicine

**CIRCADIAN AGING, SLEEP AND HYPOTHALAMUS IN RHESUS MONEKYS.**

5:00 pm Henryk Urbanski, PhD, Oregon National Primate Research Center

**NEUROENDOCRINE RHYTHMS IN THE AGED RHESUS MACAQUE.**

5:30 pm Paula Bickford, PhD, University of South Florida  
**FUTURE DIRECTIONS – INTERVENTIONS FROM RODENTS TO PRIMATES.**

6:00 pm Pre-conference adjourns

**6:30 pm – 8:00 pm**  
**AGE Conference Registration**

**6:30 pm – 8:00 pm**  
**AGE WELCOME RECEPTION**

**Saturday, May 31, 2008**

**THE ROLE OF GENES, ENVIRONMENT AND CHANCE IN DETERMINING AGING**

**Chair: Thomas Johnson, PhD,  
University of Colorado Boulder**

7:00 am AGE Conference Registration  
Continental Breakfast

8:00 am **AGE Conference Sessions Begin:  
Dedication to Seymour Benzer**

8:00 am – 8:10 am **Welcome and Opening Remarks**  
Thomas Johnson, PhD, President, American Aging Association

8:10 am – 9:50 am

**PLENARY SESSION I:**

*Sponsored by The Ellison Medical Foundation and "Mechanisms of Ageing and Development"*

8:10 am James Vaupel, PhD, Max Planck Institute for Demographic Research

**DEMOGRAPHIC CONSEQUENCES OF THE AGING-REVOLUTION.**

8:50 am Discussion

9:00 am Mario Fraga, PhD, National Cancer Center, Madrid, Spain  
**EPIGENETICS OF HUMAN AGING.**

9:40 am Discussion

**9:50 am – 10:20 am B R E A K**

10:20 am –12:00 pm *Session I and II are Dual Sessions*

**SESSION I: NEUROGENESIS IN AGING**

*Chair: Paula Bickford, PhD, University of Florida*

10:20 am 1 Ashok Shetty, PhD, Duke University Medical Center  
**CHANGES IN HIPPOCAMPAL STEM CELL BEHAVIOR WITH AGE.**

10:40 am Discussion

10:45 am 2. Nora Abrous, PhD, INSERM, France  
**ADULT HIPPOCAMPAL NEUROGENESIS AND SPATIAL MEMORY DURING AGING.**

11:05 am Discussion

11:10 am 3. Douglas Rosene, PhD, Boston University  
**NEUROGENESIS IN THE AGING NON-HUMAN PRIMATE: WHAT HAPPENS TO ALL THESE NEW CELLS?**

11:30 am Discussion

11:35 am 4. Carmelina Gemma, PhD, University of South Florida  
**MODULATING AGE-RELATED DECLINES IN NEUROGENESIS WITH ANTI-INFLAMMATORY TREATMENTS.**

11:55 am Discussion

**Saturday, May 31, 2008 continued**

10:20 am –12:00 pm *Session I and II are Dual Sessions*

*Sponsored by The Methuselah Foundation*

**SESSION II: AGING AND TURNOVER OF EXTRACELLULAR MATRIX (ECM)**

*Chair: John D. Furber, Legendary Pharmaceuticals*

- 10:20 am 5. John D. Furber, Legendary Pharmaceuticals  
**OVERVIEW OF AGING AND TURNOVER OF THE ECM.**
- 10:40 am Discussion
- 10:45 am 6. Vincent M. Monnier, MD, Case Western Reserve University  
**CHEMICAL AGING OF THE ECM BY CARBONYL AND OXIDANT STRESS: PROSPECTS FOR INTERVENTION.**
- 11:05 am Discussion
- 11:10 am 7. Alexandra Stolzing, PhD, Fraunhofer Institute for Cell Therapy & Immunology, Leipzig, Germany  
**GLYCATED ECM HARMS MESENCHYMAL STEM CELLS IN OLD AGE: SIGNALING AND STRUCTURAL MECHANISMS.**
- 11:30 am Discussion
- 11:35 am 8. David M. Gardiner, PhD, University of California, Irvine  
**REMODELING OF ECM IN AMPHIBIAN REGENERATION.**
- 11:55 am Discussion

**12:00 pm – 1:30 pm Special Luncheon**

**VINCENT CRISTOFALO RISING STAR MEMORIAL AWARD AND LECTURE:**

**Ana Maria Cuervo, M.D., Ph.D.**

***“AUTOPHAGY AND AGING: NEW FUNCTIONS FOR AN OLD GARBAGE CONTAINER”***

*SPONSORED BY*

*THE AMERICAN FEDERATION FOR AGING RESEARCH (AFAR)*

*in collaboration with*

*Margaret F. Cristofalo*

*The Ellison Medical Foundation*

*Glenn Foundation for Medical Research*

*The Gerontological Society of America*

*Kronos Longevity Research Institute*

*George C. Prendergast, Ph.D.*

**1:30 pm – 3:10 pm Sessions III and IV are Dual Sessions**

**SESSION III: TRANS-ATLANTIC AWARENESS AND**

**COLLABORATION SYMPOSIUM**

**ON AGING RESEARCH**

*Co-Chairs: Richard Faragher, PhD, Brighton University, UK, Holly Van Remmen, PhD, University of Texas Health Science Center San Antonio*

- 1:30 pm 9. Dianne Ford, PhD, Newcastle University  
**ROLE OF SIRT1 IN RESTRICTED ENERGY INTAKE.**
- 1:45 pm Discussion

- 1:50 pm 10. Elizabeth Ostler, PhD, Brighton University  
DOES AGEING NEED CHEMISTRY?  
2:05 pm Discussion

**Saturday, May 31, 2008 continued**

- 2:10 pm 11. Gladys Onambélé-Pearson, PhD, Manchester  
Metropolitan University  
**EXERCISE HARD OR EXERCISE GENTLY? THE CASE OF OLDER  
PERSONS' PHYSIOLOGIC & ENDOCRINOLOGIC RESPONSES'.**  
2:25 pm Discussion  
2:30 pm 12. Ilaria Bellantuono, PhD, Sheffield University  
**STEM CELLS IN DOWN SYNDROME: A ROLE IN PREMATURE  
AGEING?**  
2:45 pm Discussion  
2:50 pm 13. Richard Hartley, PhD,  
**SMALL MOLECULES TO UNDERSTAND AND AMELIORATE  
THE OXIDATIVE PROCESSES OF AGEING.**  
3:05 pm Discussion

**1:30 pm – 3:10 pm Sessions III and IV are Dual Sessions**

**SESSION IV: NUTRITION AND THE “LONGEVITY DIVIDEND”**

*Sponsored in part by the Wild Blueberry Association of North American*

*Chair: James Joseph, PhD, FAAA, USDA, Jean Mayer Human Nutrition  
Research Center on Aging at Tufts University*

- 1:30 pm 14. Gregory M. Cole, PhD, VA Medical Center and University of  
California, Los Angeles  
**PREVENTION OF ALZHEIMER DISEASE: OMEGA 3 FATTY  
ACIDS AND  
CURCUMIN.**  
1:50 pm Discussion  
1:55 pm 15. Elizabeth Head PhD, University of California Irvine  
**THE ROLE OF ANTIOXIDANT DIETS IN COGNITION IN THE  
AGED BEAGLE.**  
2:15 pm Discussion  
2:20 pm 16. Debbie Clegg, PhD, University of Texas, Southwestern  
Medical Center  
**NUTRIENTS, OBESITY, AND THE BRAIN.**  
2:40 pm Discussion  
2:45 pm 17. James Joseph, PhD, USDA, Jean Mayer Human Nutrition  
Research Center on Aging  
at Tufts University  
**SIGNALING MECHANISMS INVOLVED IN THE BENEFICIAL  
EFFECTS OF POLYPHENOLS.**

3:05 pm Discussion

**3:10 pm – 3:45 pm BREAK**

**3:45 pm – 5:00 pm Sessions V and VI are Dual Sessions**

**SESSION V: SUBMITTED PAPER SESSION and Poster Presentation**

**I**

3:45 pm 18. Arie Budovsky, Ben-Gurion University of the Negev  
(N) COMPREHENSIVE ANALYSIS OF EVOLUTIONARY CONSERVATION

OF GENES

ASSOCIATED WITH LONGEVITY AND HUMAN AGE-RELATED

DISEASES.

3:55 pm Discussion

4:00 pm 19. Josh Mitteldorf, PhD, University of Arizona  
ADAPTING EVOLUTIONARY THEORY TO ACCOMMODATE

AGING.

4:10 pm Discussion

**Saturday, May 31, 2008 continued**

4:15 pm 20. Rose Reynolds, PhD, University of Oregon  
(G) DEMOGRAPHIC AND PHYSIOLOGICAL CONTRIBUTORS TO  
LATE LIFE MORTALITY PLATEAUS IN *DROSOPHILA*  
*MELANOGASTER*.

4:25 pm Discussion

4:30 pm 21. Frank Rosenzweig, PhD, University of Montana  
CHRONOLOGICAL LONGEVITY IN THE ABSENCE OF CALORIC  
RESTRICTION: HOW YEAST AGE IN IMMOBILIZED CELL  
REACTORS.

4:40 pm Discussion

4:45 pm 22. Deqing Wu, PhD, University of Colorado at Boulder  
MORTALITY IN CAENORHABDITIS ELEGANS: REMEMBRANCE  
OF CONDITIONS PAST.

4:55 pm Discussion

5:00 pm 23. Anatoliy Yashin, PhD, Duke University  
AGE TRAJECTORIES OF PHYSIOLOGICAL STATE AND  
FACTORS AFFECTING THEM: WHAT DO THEY TELL US  
ABOUT AGING AND LONGEVITY?

5:10 pm Discussion

5:15 pm 24. Usman Zulfqar, PhD, University of Illinois at Chicago  
(N) WHY FEMALES OUTLIVE MALES: AUTONOMIC  
CONSIDERATIONS.

5:25 pm Discussion

3:45 pm – 5:00 pm *Sessions V and VI are Dual Sessions*

**SESSION VI: SUBMITTED PAPER SESSION and Poster**

**Presentation I**

3:45 pm 25. Vishwa Dixit, PhD, Pennington Biomedical Research Center

3:55 pm Discussion

4:00 pm 26. Linda Enns, PhD, University of Washington  
**(G) DISRUPTION OF THE RII $\beta$  SUBUNIT OF PKA INCREASES LIFESPAN IN MICE AND PROTECTS AGAINST CARDIAC STRESS.**

4:10 pm Discussion

4:15 pm 27. Christopher Ford, University of Manchester  
**(N) LIVER X RECEPTOR  $\beta$  IS EXPRESSED IN HUMAN EPIDERMIS, BUT IS NOT ALTERED BY PHOTOAGING.**

4:25 pm Discussion

4:30 pm 28. So-young Jang, University of Seoul  
**NICOTINAMIDE ACTIVATES MITOPHAGY.**

4:40 pm Discussion

4:45 pm 29. Christophe Lo Bianco, PhD, Lund University  
**(G) UNDERSTANDING THE ROLE OF AGING AND MITOCHONDRIAL DNA MUTATIONS IN PARKINSON'S DISEASE.**

4:55 pm Discussion

5:00 pm 30. LaDora Thompson, PhD, University of Minnesota  
**OXIDATIVE STRESS AND MUSCLE DYSFUNCTION WITH**

**AGING.**

5:10 pm Discussion

**Saturday, May 31, 2008 continued**

5:15 pm 31. Jonathan Wanagat, MD, PhD, University of Washington  
**ALTERATION OF MITOCHONDRIAL DNA MUTATION RATES IMPACTS SARCOPENIA.**

5:25 pm Discussion

**3:45pm – 7:00 pm**

**COCKTAIL RECEPTION AND POSTER PRESENTATION**

**I**

**Competition for Glenn Award and Nicolai Prize**

**7:00 pm – 10:00 pm AGE Board of Directors Dinner Meeting**



7:00 pm – 8:00 pm

Special Student Session  
Dr. Richard Burke

## Sunday, June 1, 2008

7:00 am AGE Conference Registration  
Continental Breakfast

8:00 am – 10:30 am

### PLENARY SESSION 2

Sponsored by The Ellison Medical Foundation and “*Experimental Gerontology*”

8:00 am Eline Slagboom, PhD, Leiden University Medical Center

IDENTIFICATION OF LONGEVITY GENES IN HUMANS.

8:40 am Discussion

8:50 am Kaare Christensen, MD, PhD, University Southern Denmark  
AGING TWINS – WHAT THEY TELL US.

9:30 am Discussion

9:40 am Heidi Tissenbaum, PhD, University of Massachusetts Medical School  
THE NEMATODE *C.ELEGANS* AND IT'S CONTRIBUTIONS TO  
AGING RESEARCH.

10:20 am Discussion

**10:30 am – 11:00 am**      **B R E A K**

11:00 am – 12:40 pm      *Sessions VII and VIII are Dual Sessions*

### SESSION VII: AGING IS GOING TO THE DOGS (Part 1)

*Co-Chairs: Donald K. Ingram, PhD, Pennington Biomedical Research  
Center and*

*Norman Wolf, DVM, PhD, University of Washington*

11:00 am **32.** Gordon Lark, PhD, University of Utah  
WHAT THE DOG GENOME IS TELLING US ABOUT "MAKING  
OLD BONES."

11:20 am Discussion

11:25 am **33.** Kimberly Greer, PhD, Texas A & M University  
RELATIONSHIP OF METABOLIC RATE, SIZE, AND LONGEVITY.

11:45 am Discussion

## Sunday, June 1, 2008 continued

11:50 am **34.** Elizabeth Head PhD, University of California Irvine  
BRAIN AGING IN DOGS.

12:10 pm Discussion

- 12:15 am            35.    N. W. Milgram, PhD, CanCog Technologies, Inc.  
                          **BEHAVIORAL ANALYSIS OF COGNITIVE AGING IN DOGS.**  
12: 35 pm            Discussion

11:00 am –12:40 pm    *Sessions VII and VIII are Dual Sessions*

**SESSION VIII: AGING AND THE IMMUNE SYSTEM**

*Chair: Rita B. Effros, PhD, University of California Los Angeles*

- 11.00 am            36.    Kenneth Dorshkind, PhD, University of California, Los Angeles  
                          **EFFECTS OF AGING ON HEMATOPOIESIS AND PATTERNS  
                          OF LEUKEMOGENESIS.**  
11:20 am            Discussion  
11:25 am            37.    Arne Akbar, PhD, University College, London  
                          **THE CONTROL OF FUNCTIONAL T LYMPHOCYTE LONGEVITY  
                          DURING AGING.**  
11:45 am            Discussion  
11:50 am            38.    Rita B. Effros, PhD, University of California, Los Angeles  
                          **TELOMERASE-BASED APPROACHES TO IMPROVING IMMUNE  
                          FUNCTION DURING AGING.**  
12:10 pm            Discussion  
12:15 pm            39.    Janet McElhaney, MD, University of Connecticut Health Center  
                          **THE UNMET NEED: TRANSLATING BASIC SCIENCE TO  
                          IMPROVE OUTCOMES OF INFLUENZA VACCINATION IN  
                          OLDER ADULTS.**  
12:35 pm            Discussion

**12:40 PM – 1:40 PM            LUNCH B R E A K (on your own)**

1:40 pm – 3:20 pm    *Sessions IX and X are Dual Sessions*

**SESSION IX: AGING IS GOING TO THE DOGS (Part 2)**

*Sponsored in part by the Iams Company*

*Co-Chairs: Donald K. Ingram, PhD, Pennington Biomedical Research Center  
and*

*Norman Wolf, DVM, PhD, University of Washington*

- 1:40 pm            40.    Norman Wolf, DVM, PhD, University of Washington  
                          **AGING OF THE EYE IN DOGS.**  
2:00 pm            Discussion  
2:05 pm            41.    Stefan Massimino, PhD, Iams Company  
                          **AGE-RELATED CHANGES IN IMMUNE FUNCTION IN DOGS.**  
2: 25 pm            Discussion  
2:30 pm            42.            David J. Waters, DVM, PhD, Purdue University

**CANCER AND AGING IN DOGS.**

2:50 pm

Discussion

**Sunday, June 1, 2008 continued**

2:55 pm  
Louis

**43.** Dennis Lawler, DVM, The Nestlé Research Center, St.

**DIET RESTRICTION AND AGING IN DOGS.**

3:15 pm

Discussion

1:40 pm – 3:20 pm *Sessions IX and X are Dual Sessions*

**SESSION X: HABITUAL EXERCISE AND ARTERIAL AGING**

*Co-Chairs: Douglas Seals, PhD, University of Colorado Boulder, and Hirofumi Tanaka, PhD, University of Texas at Austin*

1:40 pm

**44.** Douglas Seals, PhD, University of Colorado  
**AGING, HABITUAL EXERCISE AND ENDOTHELIUM  
DEPENDENT DILATION IN  
HUMANS.**

2:00 pm

Discussion

2:05 pm

**45.** Judy Muller-Delp, PhD, West Virginia University  
**MECHANISMS OF AGE AND HABITUAL EXERCISE ON  
VASOMOTOR FUNCTION IN  
RODENTS.**

2:25 pm

Discussion

2:30 pm  
Sciences Center

**46.** Brian Stauffer, MD, FACC, University of Colorado Health

**AGING, EXERCISE AND ENDOTHELIAL FIBRINOLYTIC  
FUNCTION.**

2:50 pm

Discussion

2:55 pm

**47.** Hirofumi Tanaka, PhD, University of Texas at Austin  
**AGING, HABITUAL EXERCISE AND LARGE ELASTIC ARTERY  
STIFFNESS.**

3:15 pm

Discussion

**3:20 pm – 3:50 pm Break**

3:50 pm – 5:20 pm *Sessions XI and XII are Dual Sessions*

**SESSION: XI SUBMITTED PAPERS and Poster Presentation II**

3:50 pm

**48.** Guy Adami, PhD, University of Illinois at Chicago  
**MODIFICATION OF THE ATM/ATR DIRECTED DNA DAMAGE  
RESPONSE STATE WITH AGING AND LONG AFTER  
SENESCENCE INDUCTION IN VIVO.**

4:00 pm

Discussion

- 4:05 pm Foundation 49. Vera Lucia Bonilha, PhD, The Cleveland Clinic  
**AGE-RELATED REDUCTION IN RETINAL DEAMINATION LEVELS IN THE F344BN RAT.**
- 4:15 pm Discussion
- 4:20 pm 50. Adam Salmon, PhD, University of Texas Health Science Center at San Antonio  
**(N) CELLS FROM NAKED MOLE-RATS ARE RESISTANT TO MULTIPLE CELL STRESSORS.**
- 4:30 pm Discussion
- 4:35 pm 51. Valerie Vanhooren, University of Ghent  
**(N) OVER-EXPRESSION OF HEAT SHOCK PROTEIN 70 IN MICE CAUSES GROWTH RETARDATION AND EARLY DEATH.**
- 4:45 pm Discussion

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**Sunday, June 1, 2008 continued**

- 4:50 pm 52. Hae Young Chung, PhD, Pusan National University  
**MOLECULAR INFLAMMATION AS THE UNDERLYING MECHANISM FOR THE AGING PROCESS: ANTI-AGING ACTION OF CALORIE RESTRICTION.**
- 5:00 pm Discussion
- 5:05 pm 53. Rolf Martin, PhD, Burke-Cornell Medical Research Institute  
**BLUEBERRY STUDY MEMORY SCORE IMPROVEMENTS REACH 95% CONFIDENCE; SPECIAL PROJECT REPORTS.**
- 5:15 pm Discussion

**3:50 pm – 5:35 pm *Sessions XI and XII are Dual Sessions***

**SESSION: XII SUBMITTED PAPERS and Poster Presentation II**

- 3:50 pm 54. Barbara Shukitt-Hale, PhD, USDA, USDA, Jean Mayer Human Nutrition Research  
Center on Aging at Tufts University  
**IS RESVERATROL THE MOST EFFECTIVE STILBENE TO MITIGATE AGING: IS IT WORTH “WINING” ABOUT?**
- 4:00 pm Discussion
- 4:05 pm 55. Bryant Villeponteau, PhD, Sierra Sciences  
**INDUCTION OF HUMAN TELOMERASE BY A SMALL MOLECULE DRUG.**
- 4:15 pm Discussion
- 4:20 pm 56. Mariana Pehar, PhD, University of Wisconsin-Madison

**(G) HYPERACTIVATION OF THE AGING PROGRAM CAUSES A SELECTIVE DEGENERATION OF MEMORY FORMING AND RETRIEVING AREAS OF THE MOUSE BRAIN.**

4:30 pm

Discussion

4:35 pm

**57. Shinichi Someya, PhD, University of Wisconsin - Madison  
(G) AGE-RELATED HEARING LOSS REQUIRES THE MITOCHONDRIAL APOPTOSIS ACTIVATOR BAK.**

4:45 pm

Discussion

4:50 pm

**58. David Melzer, PhD, University of Exeter  
GENOME WIDE ASSOCIATION STUDIES AND HEALTHY AGING.**

5:00 pm

Discussion

5:05 pm

**59. Gregory Tranah, PhD, California Pacific Medical Center  
ASSOCIATION BETWEEN REST/ACTIVITY RHYTHMS AND MORTALITY IN COMMUNITY-DWELLING OLDER WOMEN.**

5:15 pm

Discussion

5:20 pm

**60. Jennifer Webster, Translational Genomics Research**

Institute

**GENOME WIDE ASSOCIATION STUDY REVEALS SNP ASSOCIATED WITH LONGEVITY.**

5:30 pm

Discussion

**5:35 PM - 6:00 PM**

**AGE Business Meeting – Open to all Members**

**Sunday, June 1, 2008 continued**

**3:50 PM – 7:30 PM**

**COCKTAIL RECEPTION AND POSTER PRESENTATION**

**II**

**Competition for Glenn Award and Nicolai Prize**

**7:30 PM -**

**Student Sessions and Data Blitz  
Student Social**

**Monday, June 2, 2008**

**7:00**

**Continental Breakfast**

**8:00 am – 9:15 am**

**SESSION XIII: PROTEIN AGGREGATION IN DISEASES OF AGING**

*Chair: Chris Link, Ph.D., University of Colorado, Boulder*

- 8:00 am                                    **61.**    Andrew Dillin, Ph.D., Salk Institute  
**A TRANS-ACTIVATOR ELEVATES PROTEASOME ACTIVITY IN AN AGING DEPENDENT MANNER**  
8:20 am                                    Discussion
- 8:25 am                                    **62.**    Allan Taylor, Ph.D., Jean Mayer Human Nutrition Research Center on Aging at Tufts University  
**PROTEIN QUALITY CONTROL, CATARACT AND AMD AS AMYLOID.**  
8:45 am                                    Discussion
- 8:50 am                                    **63.**    Chris Link, Ph.D., University of Colorado Boulder  
**PROTEIN AGGREGATION IN AN ALZHEIMERS DISEASE MODEL IN THE WORM.**  
9:10 am                                    Discussion
- 9:15 am – 9:45 am    B R E A K    9:45 am –11:25am      *Session XIV and XV are Dual Sessions***  
**SESSION XIV: NATHAN SHOCK SYMPOSIUM**  
*Chair: Felipe Sierra, PhD, National Institute on Aging, NIH*
- 9:45 am                                    **64.**    Matt Kaeberlein, Ph.D., University of Washington  
**UNDERSTANDING AGING THROUGH CONSERVED LONGEVITY PATHWAYS.**  
10:00 am                                    Discussion
- 10:05 am                                    **65.**    Geoffrey Murphy, PhD University of Michigan  
**NEURONAL CALCIUM DYSREGULATION AND AGE-RELATED COGNITIVE DECLINE.**  
10:20 am                                    Discussion
- 10:25 am                                    **66.**    Yuji Ikeno, MD, PhD, University of Texas Health Science Center at San Antonio  
**IS THE LIFE-EXTENDING ACTION OF Cu/ZnSOD OVEREXPRESSION IN MAMMALS OBESITY DEPENDENT?**  
10:40 am                                    Discussion
- 10:45 am                                    **67.**    Simon Melov, PhD, Buck Institute  
**ENDURANCE EXERCISE, IMMOBILIZATION, AND GENE EXPRESSION IN WORMS, MICE AND HUMANS.**  
11:00 am                                    Discussion

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**Monday, June 2, 2008 continued**

- 11:05 am                                    **68.**    Rong Yuan, MD, Jackson Laboratories  
**GENETIC REGULATION OF IGF-1 AND LIFESPAN IN MOUSE MODELS.**  
11:20 am                                    Discussion

9:45 am –11:25 am *Session XIV and XV are Dual Sessions*

**SESSION XV: PHYSIOLOGICAL HORMESIS AND LIFE EXTENSION**

*Chair: Gordon Lithgow, PhD, Buck Institute for Age Research*

- 9:45 am                   **69.**    Edward Masoro, PhD, University of Texas Health Science Center San Antonio  
**HORMESIS, CALORIE RESTRICTION AND LIFE EXTENSION.**  
10:05 am                   Discussion
- 10:10 am                   **70.**    Holly Brown-Borg, PhD, University of North Dakota  
**GROWTH HORMONE, HORMESIS AND LONGEVITY IN MICE.**  
10:30 am                   Discussion
- 10:35 am                   **71.**    James R. Cypser, PhD, University of Colorado, Boulder  
**SECONDARY PHENOTYPES ASSOCIATED WITH A GFP REPORTER THAT PREDICTS INCREASED SURVIVAL IN *C. ELEGANS*.**  
10:55 am                   Discussion
- 11:00 am                   **72.**    Gordon Lithgow, PhD, Buck Institute for Age Research  
**HORMESIS AND AGING IN *C.ELEGAN*.**  
11:20 am                   Discussion

**11:45 AM – 2:00 PM**

**American Aging Association Awards Luncheon.**

All meeting registrants invited.

**Awards Presentation:**

**Distinguished Achievement Award  
Arthur Everitt, PhD**

**Denham Harman Research Award  
Mark A. Smith, PhD**

**Poster Awards**

Paul E. Glenn Award  
Walter R. Nicolai Award

**2:00 PM**

**Denham Harman Award Lecture for 2008:**

**“Molecular Pathogenesis of Alzheimer Disease: Facts and Fictions”**

Mark A. Smith, PhD  
Case Western Reserve University

3:00 pm

CONFERENCE ADJOURNS