

PROTEIN QUALITY AND AGING

Chair: Richard A. Miller, MD, PhD, University of Michigan

**(Sponsored by the Kronos Longevity Research Institute,
the American Federation for Aging Research, and the Promega Corporation)**

- 7:00 am – 8:00 am** **Pre-Conference Registration**
Continental Breakfast
- 8:00 am – 8:15 am** **Welcome and Opening Remarks**
Richard A. Miller, MD, PhD, University of Michigan
- 8:15 am – 10:15 am** **SESSION I**
OVERVIEW OF PROTEINS AND AGING
- 8:15 am – 8:45 am Holly Van Remmen, PhD, South Texas Veterans Health Care System and
University of Texas Health Science Center, San Antonio
**CLASSICAL STUDIES ON TRANSLATION, AGING AND CALORIC
RESTRICTION**
- 8:45 am – 9:15 am Pankaj Kapahi, PhD, Buck Institute for Age Research
**MECHANISMS OF LIFESPAN EXTENSION BY DIETARY
RESTRICTION-LESSONS FROM FLIES AND WORMS**
- 9:15 am – 9:45 am Brad Gibson, PhD, Buck Institute for Age Research
PROTEOMIC METHODS, THE CUTTING EDGE
- 9:45 am – 10:15 am Randy Kaufman, PhD, University of Michigan
OVERVIEW: UNFOLDED PROTEIN RESPONSE
- 10:15 am – 10:30 am** B R E A K
- 10:30 am – 12:30 pm** **SESSION II**
- 10:30 am – 11:00 am Malene Hansen, PhD, Burnham Institute
**A ROLE FOR TOR-REGULATED PROCESSES IN
C. ELEGANS LIFESPAN**
- 11:00 am – 11:30 am Matt Kaeberlein, PhD, University of Washington, Seattle
PROTEOTOXICITY AND AGING: CAUSE OR CORRELATION
- 11:30 am – 12:00 pm TBA
OVERVIEW: PROTEASOME PATHWAYS
- 12:00 pm -12:30 pm Marco Sandri, PhD, Venetian Institute of Molecular Medicine
FOXO PATHWAYS AND PROTEIN DEGRADATION IN MUSCLE

12:30 pm – 2:00 pm

LUNCH BREAK (on your own)

2:00 pm – 4:00 pm

SESSION III

2:00 pm – 2:30 pm

Michael Hall, PhD, Biozentrum (Basel)

OVERVIEW: TOR PATHWAYS

2:30 pm – 3:00 pm

Rick Morimoto, PhD, Northwestern University

AGING AND PROTEIN QUALITY CONTROL

3:00 pm – 3:30 pm

Vojo Deretic, Ph.D. University of New Mexico

OVERVIEW: AUTOPHAGY

3:30 pm – 4:00 pm

Jason Gestwicki, Ph.D. University of Michigan

**CHEMICAL MODIFIERS OF HSP70 REVEAL ITS ROLES
IN PROTEIN QUALITY CONTROL**

4:00 pm – 4:15 pm

BREAK

4:15 pm – 4:45 pm

SESSION IV

4:15 pm – 4:45 pm

Dominic Withers, University College London

**INSULIN SIGNALING PATHWAYS AND PROTEOTOXIC DISEASES
IN MICE**

4:45 pm – 5:30 pm

SESSION V

**SUMMARY OF MEETING AND QUESTIONS FOR
SPEAKERS**

Chair: Richard A. Miller, MD, PhD, University of Michigan

Discussants:

Gordon Lithgow, PhD, Buck Institute for Age Research, Novato, CA

Brian Kennedy, PhD, University of Washington, Seattle

Pre-Conference Adjourns

6:30 pm – 8:00 pm

**AAA Conference Registration
AAA WELCOME RECEPTION**

11:55 am – 12:10 pm Author, degree, Institution
TITLE
Discussion

12:10 pm – 12:25 pm Author, degree, Institution
TITLE
Discussion

12:25 pm – 12:40 pm Author, degree, Institution
TITLE
Discussion

12:40 pm – 12:55 pm Author, degree, Institution
TITLE
Discussion

1:00 pm – 2:30 pm

Special Luncheon

PLENARY SESSION II

VINCENT CRISTOFALO MEMORIAL RISING STAR AWARD AND LECTURE

Brian K. Kennedy, Ph.D.

Professor of Biochemistry, University of Washington

Sponsored by:

the American Federation for Aging Research (AFAR)

In collaboration with

Margaret F. Cristofalo

2:30 pm – 4:30 pm **SESSION 4: INTEGRATIVE BIOLOGY: FROM SIGNAL TO RESPONSE**

Chair: Janko Nikolich-Zugich, MD, PhD, University of Arizona College of Medicine

2:30 pm Jorg Goronzy, PhD, Emory University
ARTHRITIS, T-CELLS AND REPLICATIVE SENESENCE
Discussion

2:50 pm Arne Akbar, PhD, University College, London, UK
PERSISTENT VIRUSES AND HUMAN IMMUNE AGING
Discussion

3:10 pm – 3:30 pm

B R E A K

3:30 pm – 3:50 pm Vojo Deretic, PhD, University of New Mexico
AUTOPHAGY AND MACROMOLECULAR RENEWAL
Discussion

- 7:00 am** **AAA Conference Registration**
Continental Breakfast
- 8:00 am – 8:50 am** **PLENARY SESSION II**
INTERVENTION STUDIES WITH GH OR GH SECRETAGOGUES
TO EXTEND HEALTHSPAN
Chair: P.D. Tsitouras, MD
Marc R. Blackman, MD, Washington, DC VA Medical Center
- 9:00 am – 10:20 am** *Invited Paper Sessions 6a and 6b are Dual Sessions*
SESSION 6a - HORMONES, GENES, AND LONGEVITY
Chair: Holly Brown-Borg, PhD, University of North Dakota
- 9:00 am – 9:20 am Blanka Rogina, PhD, University of Connecticut School of Medicine
DROSOPHILA-FEMALE REPRODUCTION AND AGING.
Discussion
- 9:20 am – 9:40 am Tom Johnson, PhD, University of Colorado at Boulder
C. ELEGANS- STOCHASTIC PATTERNS IN AGING
Discussion
- 9:40 am – 10:00 am Andrzej Bartke, PhD, Southern Illinois University School of Medicine
MOUSE - GROWTH HORMONE, IGF-1 AND INSULIN
Discussion
- 10:00 am – 10:20 am Don Ingram, PhD, Pennington Biomedical Research Center
CALORIC RESTRICTION EFFECTS ON HORMONES IN PRIMATES
Discussion
- 9:00 am – 10:20 am** **SESSION 6b: NUTRITIONAL FACTOR EFFECTS ON**
AGING
Chair: Barbara Shukitt-Hale, PhD
- 9:00 am – 9:20 am Agnes Rimando, PhD, USDA Agricultural Research Service
LIPID LOWERING AND NEUROPROTECTIVE PROPERTIES OF
PTEROSTILBENE
Discussion
- 9:20 am – 9:40 am Rui Hai Liu, MD, PhD, Cornell University
HEALTH BENEFITS OF DIETARY PHYTOCHEMICALS:
IMPLICATIONS FOR CHRONIC DISEASE PREVENTION
Discussion
- 9:40 am – 10:00 am Lauren M. Willis, PhD, Tufts University
ANTI-INFLAMMATORY PROPERTIES OF WALNUTS
Discussion

11:10 am – 11:25 am Author, degree, Institution
TITLE
Discussion

11:25 am -11:40 am Author, degree, Institution
TITLE
Discussion

11:40 am – 11:55 am Author, degree, Institution
TITLE
Discussion

11:55 am – 12:10 pm Author, degree, Institution
TITLE
Discussion

12:10 pm – 12:25 pm Author, degree, Institution
TITLE
Discussion

12:25 pm – 1:40 pm LUNCH BREAK (on your own)

1:40 pm – 3:20 pm *Invited Paper Sessions 8a and 8b are dual sessions*
SESSION 8 a: HORMONES, MUSCLE, AND
NEUROMUSCULAR JUNCTIONS
Chair: Roger Fielding, PhD, Tufts University

1:40 pm – 2:00 pm Holly Van-Remmen, PhD, South Texas Veterans Health Care System and
University of Texas Health Science Center, San Antonio
MITOCHONDRIAL OXIDATIVE STRESS IN AGE-RELATED
SKELETAL MUSCLE ATROPHY
Discussion

2:00 pm – 2:20 pm Christiaan Leeuwenburgh, PhD, University of Florida School of Medicine
IRON ACCUMULATION IN SKELETAL MUSCLE MITOCHONDRIA
WITH AGE AND FUNCTIONAL CONSEQUENCES
Discussion

2:20 pm – 2:40 pm Nathan LeBrasseur, PhD, Boston University School of Medicine
METABOLIC CONSEQUENCES OF SARCOPENIA
Discussion

2:40 pm – 3:00 pm Tinna Traustadottir, PhD, Kronos Longevity Research Institute
SARCOPENIA, STRESS, HORMONES, AND AGING
Discussion

3:00 pm – 3:20 pm Roger Fielding, PhD, Tufts University
ANABOLIC CAPACITY IN AGING SKELETAL MUSCLE
Discussion

- 4:20 pm – 4:40 pm Joseph Verbalis, MD, Georgetown University College of Medicine
ADH, SODIUM AND BONE
Discussion
- 4:40 pm – 5:00 pm Shalendar Bhasin, MD, Boston University School of Medicine
TESTOSTERONE IN AGING MEN
Discussion
- 3:40 pm – 5:00 pm** **SESSION 9b: PHYSIOLOGY AND GENOMICS OF CALORIC RESTRICTION**
Chair: Tom Johnson, PhD, University of Colorado at Boulder
- 3:40 pm – 4:00 pm Monica Driscoll PhD, Rutgers University
DIET, DRUGS AND HEALTHSPAN GENETICS
Discussion
- 4:00 pm – 4:20 pm Ann Brunet, PhD, Stanford University
GENETIC AND MOLECULAR MECHANISMS OF DIETARY RESTRICTIONS IN WORMS AND MAMMALS
Discussion
- 4:20 pm – 4:40 pm Valter Longo, PhD, University of Southern California
TURNING STARVATION AGAINST DISEASES
Discussion
- 4:40 pm – 5:00 pm Brad Rikke, PhD, University of Colorado, Boulder
GENETIC VARIATION IN THE MURINE LIFESPAN RESPONSE TO DIETARY RESTRICTION
Discussion
- 5:10 pm – 6:00 pm** AAA Business Meeting – **Open to all members**
- 5:40 pm – 7:30 pm** **POSTER SESSION II**
Competition for Glenn Award and Nicolai Prize
- 6:00 pm – 7:30 pm** **COCKTAIL RECEPTION**
- 7:30 pm –** **Special Student Sessions and Data Blitz**
Student Social

- 11:40 am – 1:00 pm **Invited Paper Session 11a and 11b are dual sessions**
SESSION 11a: ADIPOSE, INFLAMMATION, AND INTERVENTION STRATEGIES
Chairs: Simin Nikbin Meydani, DVM, PhD, JMUSDA, Human Nutrition Research Center on Aging at Tufts University; James Kirkland MD, PhD, Mayo Clinic, Rochester, MN
- 11:40 am – 12:00 pm James Kirkland MD, PhD, Mayo Clinic
DOES AGING MAKE FAT GO MAD?
Discussion
- 12:00 pm – 12:20 pm Arline Salbe, PhD, Kronos Longevity Research Institute
INSULIN RESISTANCE, LIPIDS, AND AGING: THE GENETIC CONTRIBUTION.
Discussion
- 12:20 pm – 12:40 pm Peter Reaven, MD, Phoenix VA Medical Center
FATTY ACIDS, INFLAMMATION AND CARDIOVASCULAR DISEASE: NOVEL CONNECTIONS AND IMPLICATIONS
Discussion
- 12:40 pm – 1:00 pm Simin Nikbin Meydani, DVM, PhD, JMUSDA Human Nutrition Research Center on Aging, Tufts University
AGE-ASSOCIATED INFLAMMATION: MODIFICATION BY NUTRITIONAL INTERVENTION
Discussion
- 11:40 am – 1:00 pm **SESSION 11b: EVOLUTION, DEVELOPMENT AND AND CLINICAL ISSUES IN AGING AND AGE-RELATED DISEASE**
Chair: Donna Holmes, PhD, Washington State University
- 11:40 am – 12:00 pm João Pedro de Magalhães, PhD, University of Liverpool
EVOLUTIONARY FORCES SHAPING DEVELOPMENT AND CONSEQUENCES FOR AGING
Discussion
- 12:00 pm – 12:20 pm Kjersti Aagaard-Tillery, MD, PhD, Baylor College of Medicine
PRENATAL PROGRAMMING AND DISEASE
Discussion
- 12:20 pm – 12:40 pm Richard Bribiescas, PhD, Yale University
AN EVOLUTIONARY AND LIFE HISTORY PERSPECTIVE ON HUMAN MALE REPRODUCTIVE SENESCENCE
Discussion

12:40 pm – 1:00 pm Teresa H. Horton, PhD, Northwestern University
COMPARATIVE REPRODUCTIVE AGING
Discussion

1:00 pm – 1:50 pm **American Aging Association Awards Luncheon**
(all meeting registrants invited)
Awards Presentation
Distinguished Achievement Award
Denham Harman Research Award
Poster Awards
 Paul E. Glenn Award
 Walter R. Nicolai Award

2:00 pm – 2:40 pm

**PLENARY SESSION IV: DENHAM HARMAN AWARD
LECTURE FOR 2009**

Chair: TBN

Denham Harman Awardee: SUBJECT TBA

2:40 PM

CONFERENCE ADJOURNS