

## Wednesday, March 9, 2011

14:00 Welcome Address

### 1st Session: Proteostasis

Chair: Linda Partridge

14:10 – 14:45 Thorsten Hoppe, CECAD, Institut für Genetik, Universität zu Köln, Germany „**Life and Destruction: Ubiquitin-mediated Proteolysis in Aging and Longevity**“

14:45 – 15:20 Nancy Bonini, Howard Hughes Medical Institute, University of Pennsylvania, USA “**Integrating age-related mechanisms into neurodegeneration using Drosophila**”

15:20 – 15:55 Damian C. Crowther, University of Cambridge, Department of Genetics, UK “**Impeded post-dimer aggregation of Ab1-42 generates *in vivo* toxicity**”

15:55 – 16:30 Ana Maria Cuervo, Albert Einstein College of Medicine, New York, USA “**Selective Autophagy on the Cellular Response to Stress in Aging**”

16:30 – 17:00 Coffee Break

Chair: Thorsten Hoppe

17:00 – 17:35 Andy Dillin, Salk Institute, La Jolla, USA “**Extra cellular communication of proteotoxic stress**”

17:35 – 18:10 Ulrich Hartl, Max-Planck Institute of Biochemistry, Martinsried, Germany “**Mechanisms of Proteotoxicity and Defense by Molecular Chaperones**”

18:10 – 18:45 Rick Morimoto, Northwestern University, Evanston, USA “**Sensing the Stress of Misfolded Proteins by Proteostasis Networks in Aging and Age-Associated Disease**”

18:45 – 19:20 Lennart Mucke, Gladstone Institute of Neurological Disease, San Francisco, USA “**Mechanisms and Treatment of Aβ-induced Neuronal Dysfunction**”

End of Session

19:45 Open Spring Meeting Reception at the Institute for Genetics

## Thursday, March 10, 2011

### 2<sup>nd</sup> Session: Stem Cells and Ageing

Chair: Björn Schumacher

9:00 – 9:35 Henri Jasper, University of Rochester, New York, USA “**Stem Cell proliferation and lifespan in *Drosophila***”

9:35 – 10:10 Thomas Rando, Stanford University Medical Center, Stanford, USA “**Epigenetic Mechanisms of Stem Cell Aging and Rejuvenation**”

10:10 – 10:45 Gerald de Haan, University Medical Center Groningen, The Netherlands “**Age-related changes in murine hematopoiesis is mediated by highly variable acquisition of functionally defective hematopoietic stem cells**”

10:45 – 11:15 Coffee Break

11:15 – 11:50 Lenhard Rudolph, Institut für Molekulare Medizin, Ulm, Germany „**Cell intrinsic and environmental factors inducing stem cell aging**“

### 3<sup>rd</sup> Session: DNA Repair, Genome Stability

Chair: Christian Reinhardt

11:50 – 12:25 Björn Schumacher, CECAD, Institut für Genetik, Universität zu Köln, Germany „**Longevity assurance programs regulate somatic resistance to persistent DNA damage**“

12:25 – 13:00 Jan Vijg, Albert Einstein College of Medicine, New York, USA “**Genome Dynamics in Aging**”

13:00 – 14:30 Lunch break

14:30 – 15:05 Judy Campisi, Buck Institute, Novato, USA “**The DNA damage response links inflammation, tumor suppression and aging**”

15:05 – 15:40 Oscar Fernandez-Capetillo, Centro Nacional de Investigaciones Oncológicas, Madrid, Spain “**Exploring the role of replicative stress in cancer and ageing**”

Chair: Thomas Benzing

15:40 – 16:15 Jan Hoeijmakers, Erasmus MC, Rotterdam, The Netherlands “**The impact of genome maintenance on health and disease**”

16:15 – 16:45 Coffee Break

16:45 – 17:20 Frederick W. Alt, HHMI, Boston, USA „**Two short stories: Neural Sirt6 and Mapping the B cell translocatome**“

17:20 – 17:55 Yossi Shiloh, Sackler School of Medicine, Tel Aviv, Israel “**Crossroads of genome stability, cancer and ageing in the DNA damage response**”

End of Session followed by **Speakers' dinner**

## Friday, March 11, 2011

### 4<sup>th</sup> Session: Metabolism and Endocrinology

Chair: Adam Antebi

9:00 – 9:35 Linda Partridge, Max Planck Institute for Biology of Ageing, Köln, Germany “**Insulin signaling and ageing**”

9:35 – 10:10 Matt Kaerberlein, University of Washington, Seattle, USA “**HIF-1 and aging: Should we be holding our breath?**”

10:10 – 10:45 Brian Kennedy, University of Washington, Seattle, USA “**Conserved metabolic pathways modulating longevity**”

10:45 – 11:20 Jens Brüning, Institut für Genetik, Universität zu Köln, Germany, „**CNS insulin/IGF-1 action in control of body weight, glucose homeostasis and proteotoxicity**“

11:20 – 12:10 Coffee Break

12:10 – 12:45 Cynthia Kenyon, University of California, San Francisco, USA “**Pathways for lifespan extension in *C.elegans***”

12:45 – 13:20 Sylvia Lee, Cornell University, Ithaca, USA, “**The homeobox protein CEH-23 mediates the longevity of reduced mitochondrial electron transport function in *C. elegans***”

13:20 – 13:55 Richard A. Miller, University of Michigan, Ann Arbor, USA “**Cellular Stress Resistance and Aging: From Culture to Critters All-Sorts**”

13:55 – 14:45 Lunch Break

Chair: Thomas Langer

14:45 – 15:20 Adam Antebi, Max Planck Institute for Biology of Ageing, Köln, Germany “**Bile acid regulation of *C. elegans* life plan and life span**”

15:20 – 15:55 Heinz Osiewacz, Johann Wolfgang Goethe Universität, Faculty of Biosciences and Cluster of Excellence Macromolecular Complexes, Frankfurt am Main, Germany “**A hierarchical network of mitochondrial pathways involved in ageing and lifespan control**”

15:55 – 16:30 Michael Ristow, Friedrich – Schiller – Universität Jena, Germany „**Promotion of metabolic health and lifespan by transiently increasing oxidative stress: the concept of mitohormesis**“

End of Meeting