

Friday, December 4

- 12:00 – 13:00 Registration & Snacks (Abbe-Zentrum Beutenberg, Hans-Knöllstr. 10, 07745, Jena)
- 13:00 – 13:05 Opening Remarks
- 13:05 – 13:50 **Keynote Lecture** - Heinrich Jasper
Buck Institute for Research on Aging, Novato, USA
- I. Mitochondria, Metabolism, Protein quality control and Aging**
Chair: JoJo Haendeler, Michael Ristow
- 13:50 – 14:05 Alessandro Cellerino,
A longitudinal analysis of gene expression and pharmacological validation identifies complex I of the respiratory chain as a regulator of vertebrate lifespan
- 14:05 – 14:20 Julia Döhla
Asymmetric apportioning of aged mitochondria between daughter cells is required for stemness
- 14:20 – 14:35 Nirmal Robinson
TFEB-mediated autophagy induced upon the loss of Sirt1 is inhibited by *Salmonella* Typhimurium
- 14:35 – 14:50 Thorsten Hoppe
The Quality Control Ubiquitin Ligase CHIP Couples Proteostasis and Ageing Through Insulin Receptor Degradation
- 14:50 – 15:05 Martin Denzel
GFAT-1 Structure and its Role in Mammalian Protein Quality Control and Disease
- 15:05 – 15:35 **Coffee Break**
- II. Signaling and Aging**
Chair: Cornelis Calkhoven, Fritz Boege
- 15:35 – 15:50 Anna Eckers
The aryl hydrocarbon receptor promotes aging phenotypes across species
- 15:50 – 16:05 Christian Kosan
The transcription factor Miz-1 regulates signaling pathways that contribute to lymphocyte aging
- 16:05 – 16:20 Mandy Rothe
The role of the anti-ageing protein Klotho in ageing-related disorders
- 16:20 – 16:35 Thomas von Zglinicki
CHRONIC INFLAMMATION IS A MALLEABLE CAUSE OF ACCELERATED AGEING
- 16:35 – 16:50 Thomas Hahn
REGULATION OF STEROL TRANSPORT IN RESPONSE TO AGING IN SACCHAROMYCES CEREVISIAE
- III. Systems biology of aging**
Chair: Dario Riccardo Valenzano, Thomas von Zglinicki
- 16:50 – 17:05 Alessandro Ori
Integrated genomic and proteomic analyses of aging organs in rat
- 17:05 – 17:20 Andreas Beyer
A systems perspective on longevity pathways
- 17:20 – 17:35 Dario Riccardo Valenzano
Changes in the intestinal microbiota affect ageing in the short-lived African turquoise killifish
- 17:35 – 17:50 Matthias Platzer
Insights into Sex Chromosome Evolution and Aging from the Genome of the Short-Lived Fish *Nothobranchius furzeri*
- 17:50 – 18:05 Zhong-Wei Zhou
NBS1 is a multifunctional protein in regulating neural development
- 18:15 – 20:15 **Poster Session** --- **FLI New Building, Entrance Hall** (Beutenbergstr. 11, 07745, Jena)
- 20:30 **Social Dinner**

Saturday, December 5

IV. **Stem cell aging, regeneration, and organ maintenance**

Chair: Helen Morrison, Hartmut Geiger

- 09:30 – 10:15 **Keynote Lecture** - Thomas Nyström
University of Gothenburg, Göteborg, Sweden
- 10:15 – 10:30 Robert Büttner
AGING INDUCED ALTERATIONS IN EZRIN DRIVEN PERIPHERAL NERVE REGENERATION
- 10:30 – 10:45 Thomas Bates
Investigating the age-dependency of tubular regeneration in the zebrafish kidney
- 10:45 – 11:00 Roman Petrovsky
Role of the nuclear lamina for stem cell mediated homeostasis and ageing
- 11:00 – 11:15 Ali Hyder Baig
Identification of novel *Hox* target genes with essential roles in hematopoietic stem cell self renewal and differentiation
- 11:15 – 11:30 (15) Olivier Cinquin
Quantification of *in vivo* progenitor mutation accrual by detection of ultra-rare mutations in ultra-low amounts of DNA
- 11:30 – 12:00 **Coffee Break**

V. **DNA damage Aging**

Chair: Gabriele Saretzki, Zhao-Qi Wang

- 12:00 – 12:15 Hui-Ling Ou
Somatic eIF4E translation initiation factor IFE-4 regulates CEP-1/p53-mediated DNA damage response in primordial germ cells
- 12:15 – 12:30 Sebastian Iben
Disturbed protein homeostasis in Cockayne syndrome- a circulus vitiosus may cause premature aging
- 12:30 – 12:45 Wolfgang Wagner
DNA Methylation Changes in Replicative Senescence and Aging
- 12:45 – 13:00 Paulius Grigaravicius
Rint1 inactivation impairs development of the central nervous system and promotes neurodegeneration
- 13:00 – 13:15 Alicia Tapias
Involvement of histone acetyltransferase cofactor Trrap in neurodegeneration
- 13:15 – 13:25 Awards & Closing remarks
- 13:25 – 14:00 Lunch & Departure
- 14:00 – 15:30 DGfA member assembly