

Tentative program of the annual meeting of the German Association for Aging Research (DGfA), December 6-7 2018, Jena, Germany.

Thursday December 6th.

Venue: Ernst Abbe Center Beutenberg, Jena

12:00 – 01:00 pm REGISTRATION + SNACKS

01:00 pm OPENING REMARKS

01:10 – 01:55 pm **Keynote lecture**

Johannes Krause (Max Planck Institute for the Science of Human History, Jena, Germany).

The genetic history of plague: From the Stone Age to the 18th century.

Chair: M. Ermolaeva and C. Kosan

SESSION 1: Microbial and metabolic alterations during aging.

Chair: Michael Ristow and Helmut Pospiech

01:55– 02:10 pm

Dario Riccardo Valenzano (Max Planck Institute for Biology of Ageing, Cologne, Germany).

Systemic regulation of aging by the gut microbiota.

02:10 – 02:25 pm

Friedrich Becker (Leibniz Institute in Aging – Fritz Lipmann Institute, Jena, Germany).

Increased retinoic acid signaling impairs muscle stem cell function in aging mice.

02:25 – 02:40 pm

Lilia Espada (Leibniz Institute in Aging – Fritz Lipmann Institute, Jena, Germany).

Detrimental effects of late life metformin treatment on energy homeostasis and longevity.

02:40 – 02:55 pm

Alessandro Ori (Leibniz Institute in Aging – Fritz Lipmann Institute, Jena, Germany).

Age and diet affect the intestinal crypt proteome.

02:55 – 03:20 pm COFFEE BREAK

03:20 – 04:05 **Keynote lecture**

Janine Kirstein (Leibniz Institute for Molecular Pharmacology, Berlin, Germany).

Novel tools to access amyloid fibrilization with the progression of aging.

Chair: M. Ermolaeva

SESSION 2: Aging of the nervous system.

Chair: Lars Oliver Klotz

04:05 – 04:20 pm

Helen Morrison (Leibniz Institute in Aging – Fritz Lipmann Institute, Jena, Germany).
Inflammaging impairs peripheral nerve maintenance and regeneration.

04:20– 04:35 pm

Mario Baumgart (Leibniz Institute in Aging – Fritz Lipmann Institute, Jena, Germany).
Functional analysis of genes linked to adult neurogenesis.

04:35 – 04:50 pm

Alicia Tapias (Leibniz Institute in Aging – Fritz Lipmann Institute, Jena, Germany).
Understanding the role of histone acetylation in neurodegeneration.

04:50 – 05:05 pm

Konstantinos Tsemmelis (University of Ulm, Ulm, Germany). Impact of astroglial redox imbalance on CNS homeostasis and age-associated neurodegeneration.

05:05– 05:20 pm

Eva Terzibasi (Scuola Normale Superiore, Pisa, Italy). Disruption of circadian rhythms induces impairment of adult neurogenesis and gliosis in *Nothobranchius furzeri* brain.

05:20 – 05:45 pm COFFEE BREAK

SESSION 3: Epigenetic and transcriptional control during aging.

Chair: Francesco Neri

05:45 – 06:00 pm

Siyao Wang (CECAD, Cologne, Germany).
H3K4me2 regulates the recovery from UV-induced DNA damage during development and aging.

06:00 – 06:15pm

Sandra Zempter (Center for Molecular Biomedicine, Friedrich Schiller University Jena, Germany). Disturbing the interplay of a novel zinc-finger transcription factor with histone modifiers in spermatogonia results in premature male germ cell aging.

06:15 – 06:30 pm

Cédric Debès (University of Cologne, Cologne, Germany).
Ageing-associated changes in transcriptional elongation influence metazoan longevity.

06:30 – 06:45 pm

Yang Han (Helmholtz Institute for Biomedical Engineering, Aachen, Germany).
Epigenetic age-predictor for mice based on three CpG sites.

06:45 – 07:45 Poster session (drinks and snacks). Venue: Center for Molecular Biomedicine, Jena

07:45 – Open end. Buffet dinner and social event. Venue: Fritz Lipmann Institute, Jena

Friday December 7th

Venue: Ernst Abbe Center Beutenberg, Jena

09:00 – 09:30 am COFFEE + SNACKS

09:30 – 10:15 am **Keynote lecture**

Janko Nikolich-Zugich (Department of Immunobiology, University of Arizona College of Medicine and Arizona Center on Aging, USA).

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Chair: C. Kosan

SESSION 4: Hematopoiesis, immune response and environment in aging

Chair: Hartmut Geiger

10:15 – 10:30 am

Eva-Maria Piskor (Center for Molecular Biomedicine, Friedrich Schiller University Jena, Germany). The transcription factor Miz-1 is essential for maintenance of immune competence during aging.

10:30 – 10:45 pm

Andreas Brown (Institute of Molecular Medicine and Stem Cell Aging, University of Ulm, Germany). The lifespan QTL - gene securin controls hematopoietic progenitor cell function.

10:45 – 11:00 am

Annette Piechulek (Leibniz Research Institute of Environmental Medicine, Dusseldorf, Germany). Lifetime nanotoxicology in an adult organism: where and when do environmental pollutants hit?

11:00 – 11:15 am

Adam Charles Summerfield (Center for Molecular Biomedicine, Friedrich Schiller University Jena, Germany). Loss of function of the Miz-1 transcription factor induces the anti-viral response and an aging-like phenotype in haematopoietic stem cells.

11:15 – 11:45 pm COFFEE BREAK

SESSION 5: Cellular quality control pathways in aging

Chair: Bjoern Schumacher

11:45 – 12:00 am

Fatima Khalid (Department of Dermatology and Allergic Diseases University Ulm, Germany). A novel pathomechanism: are Cockayne syndrome and trichothiodystrophy ribosomopathies?

12:00 – 12:15 am

Yulia Kargapolova (Center for Molecular Medicine Cologne, Germany). A mutated CHD6 SLIDE domain links deregulation of DNA damage responses and autophagy in a rare premature ageing syndrome.

12:15 – 12:30 am

Hildegard Mack (Institute for Biomedical Aging Research, University of Innsbruck, Austria)
Calcium signalling in the regulation of DAF-16/FOXO activity and lifespan in *C. elegans*.

12:30 – 12:45 am

Della C. David (German Center for Neurodegenerative Diseases (DZNE), Tübingen, Germany). A cell-specific safeguard mechanism activated by proteostasis failure limits protein aggregation.

12:45 – 1:00 pm

Cristina González-Estévez (Leibniz Institute in Aging – Fritz Lipmann Institute, Jena, Germany). Proteostasis is necessary for stem cell proliferation and regeneration during planarian starvation.

01:00– 01:30 pm Young investigator and poster award

01:30 – 02:00 pm Snacks

02:00 – 03:00 pm DGfA Member Assembly