Thursday, 7th June 2018

13:00 **Check-in**

15:00 **Welcome Address by the Organizers**

I Session I
Chair: Itamar Harel

15:05 Understanding and Modeling Aging
Anne Brunet
Stanford University, USA

15:30 Functional Analysis of Genes linked to adult Neurogenesis
Mario Baumgart
Leibniz Institute on Aging, Fritz Lipmann Institute, Germany

15:55 The annual killifish *Nothobranchius furzeri* as a new model in long-term ecotoxicological research
Charlotte Philippe
KU Leuven, Belgium

16:20 **Coffee Break**

II Session II
Chair: Dario Riccardo Valenzano

16:40 Title TBA
Bernhard Misof
Museum Koenig, University of Bonn, Germany

17:05 Age-dependent increase of oxidative stress regulates microRNA-29 family preserving cardiac health
Johanna Heid
University of Frankfurt, Germany

17:30 Characterising antibody immunity and ageing in the turquoise killifish
William Bradshaw
Max Planck Institute for Biology of Ageing, Germany

18:00 **KEYNOTE LECTURE**
Genetics of Adaptation in Sticklebacks: the Roles of Pleiotropy and Linkage
Catherine Peichel
University of Bern, Switzerland

20:00 **Symposium Dinner**
Frueh Lounge, Sporergasse 1, 50667 Cologne, Germany
[Transfer will be provided]

Friday, 8th June 2018

III Session III
Chair: Yumi Kim

09:00 A comprehensive analysis of protein-transcript correlation, protein stability, aggregation and complex stochiometry in the aging brain
Alessandro Cellerino
Scuola Normale Superiore di Pisa, Italy

MAX PLANCK INSTITUTE FOR BIOLOGY OF AGEING
AQUANEERING
CECAD COLOGNE
TECNIPLAST
FUJIFILM VISUALSONICS
EMBO

09:25 The impact of aging on optic nerve regeneration in an emerging animal model – *Nothobranchius furzeri*
Sophie Vanhunsel
KU Leuven, Belgium

09:50 Prion-like spread of protein aggregates in the aging vertebrate brain
Itamar Harel
The Hebrew University of Jerusalem, Israel

10:15 Karyotype variability in species of genus *Nothobranchius* (Cyprinodontiformes)
Tatiana Demidova
Severtsov Institute of Ecology and Evolution, RAS, Moskow, Russia

10:40 **Coffee Break**

11:00 **WORKSHOP -** *Nothobranchius* husbandry
Moderators: Luca Dolfi and Alessia Montesano
Panelists: Mickie Powell (U Alabama), Beate Hoppe (FLI), Bobbi Baur (Aquaneering), Tommaso Sala (Tecniplast), Tom van Tilburg (Zebcare)
Location: Seminar room A

12:30 **Lunch**

IV Session IV
Chair: Anne Brunet

14:00 The causes of sex differences in lifespan and aging in *Nothobranchius* populations
Martin Reichard
The Czech Academy of Sciences, Czech Republic

14:25 A new player in the game – gdf6Y is the sex-determining gene in the short-lived turquoise killifish
Annekatrin Richter
Leibniz Institute on Aging, Fritz Lipmann Institute, Germany

14:50 Disruption of circadian rhythms induces impairment of adult neurogenesis and gliosis in *Nothobranchius furzeri*
Eva Terzibasi Tozzini
Scuola Normale Superiore di Pisa, Italy

15:15 Embryonal life histories: desiccation plasticity and diapause in the Argentinian pearlfish *Austrolebias bellottii*
Tom van Dooren
CNRS, Sorbonne University, France

15:40 **Coffee Break**

V Session V
Chair: Eva Terzibasi

16:00 Differential accumulation of somatic variants on RNA in the aged African Turquoise Killifish
Yumi Kim
Institute for Basic Science, Republic of Korea

16:25 Size matters! Ncl-1/Trim2a genes and their role in nucleolar size and lifespan control
Luca Dolfi
Max Planck Institute for Biology of Ageing, Germany

16:50 From random walk to directed cell migration: a quantitative study of killifish embryogenesis
Philip Abitua
Department of Molecular and Cellular Biology, Harvard University, USA

17:15 Interaction of aging with circadian system
Hong Gil Nam
Center for Plant Aging Research, IBS/Department of New Biology, DGIST, Republic of Korea

18:00 **Poster Session and Finger Food**
Atrium Max Planck Institute for Biology of Ageing

20:00 **Dinner & Poster Session**
Atrium Max Planck Institute for Biology of Ageing
[End open]

Saturday, 9th June 2018

VI Session VI
Chair: Adam Antebi

09:00 Towards a quantitative, real-time dissection of adult animal regeneration
Augusto Ortega Granillo
Howard Hughes Medical Institute, Stowers Institute for Medical Research, USA

09:25 Age-dependent alterations in bone quality in the spinal column of the killifish (*N. furzeri*)
Imke Fiedler
University Medical Center Hamburg-Eppendorf, Germany

09:50 Opening the black box – report on the first attempt to describe *Nothobranchius* spp. Embryonic development in the wild
Matej Polačik
Institute of Vertebrate Biology, Czech Republic

10: 15 Alternative polyadenylation and annotation of the 3' UTRs in *Nothobranchius furzeri*
Eugene Berezikov
ERIBA, the Netherlands

10:40 **Coffee Break**

11:00 **KEYNOTE LECTUREt**
Sex, death, and the comparative biology of aging
Steve Austad
University of Alabama at Birmingham, USA

12:00 **Poster Prize, Concluding Remarks & Farewell**

12:30 **Lunch Bags & Departure**

We are looking forward to welcoming you at the **2018 Nothobranchius Symposium** in Cologne, Germany.