

DGfA | DEUTSCHE GESELLSCHAFT / GERMAN ASSOCIATION  
FÜR ALTERNRSFORSCHUNG / FOR AGING RESEARCH

Annual Meeting of the  
German Association for Aging Research  
June 23-24, 2022, Cologne

## PREAMBLE

The German Society for Aging Research (DGfA) is delighted to welcome you to this year's meeting here in Cologne. It is a great pleasure to host the German community of aging researchers in our small but beautiful Ulm University. We are honored to welcome our three outstanding keynote lecturers Maria Blasco, Eva Hoffmann and Joachim Lingner. Furthermore, we welcome all members of the DGfA without whom organization of the meetings wouldn't be possible. We are looking forward to interesting talks and lively discussions at the posters and during the scientific sessions. One of the goals of the DGfA is to connect researchers in the field of aging, promoting networking and young scientists at the beginning of their career. The annual meeting of the DGfA is the perfect platform to establish collaborations and discover synergies between research groups to gain further insight into the biology of aging and aging-associated diseases. On behalf of the DGfA we wish you a successful meeting and a good time here in Cologne.

**Hartmut Geiger**

Institute for Molecular Medicine Ulm University

**Helen Morrison, PhD**

Leibniz Institute on Aging - Fritz Lipmann Institute (FLI) Jena, Germany

**Thorsten Hoppe,**

CECAD, University of Cologne

**Tatiana Korotkova,**

CECAD, University of Cologne

**Stephanie Panier,** MPI for

Biology of Ageing / University of Cologne

**Björn Schumacher**

President of the DGfA University of Cologne

**Sophie Steculorum,**

MPI for Metabolism Research, Cologne

**Peter Tessarz,** MPI

for Biology of Ageing, Cologne

**Dario Valenzano**

Leibniz Institute on Aging - Fritz Lipmann Institute (FLI) Jena, Germany

We would like to thank the Sponsors for their support:

Prof. Dr. Dieter  
Platt Stiftung

Fritz Boege Prizes

Thursday, June 23

12.55 – 01.00 pm

OPENING REMARKS

Hartmut Geiger

01.00 – 01.30 pm

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KEYNOTE LECTURE I

(hybrid)

Introduction: Dario Valenzano

Maria Blasco

Centro Nacional de Investigaciones

Oncológicas, CNIO, ES

Telomeres at the origin of aging and age-related  
diseases

01.30 – 02.30 pm

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Session 1

Chair: Peter Tessarz

01.30 – 01.45 pm

Collin Ewald, ETH Zurich

Mechanotransduction Coordinates InterTissue

Extracellular Matrix Protein Homeostasis

Promoting Longevity in *C. elegans*

01.45 – 02.00 pm

Maja Funk, German Cancer Research Center (DKFZ), Heidelberg

Aged intestinal stem cells propagate cell-intrinsic sources of inflammaging

02.00 – 02.15 pm

Philipp Haas, Ulm University

The Adaptive Response of Old ABCB5<sup>+</sup> MSCs is Changed Upon Exposure to LPS

02.15 – 02.30 pm

Ali Hageb, Ulm University

Reduced adhesion of aged intestinal stem cells contributes to an accelerated clonal drift

02.30 – 03.00 pm

COFFE BREAK

**03.00 – 03.30 pm**

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**KEYNOTE LECTURE II**  
(hybrid)

Introduction: Sophie Steculorum

Eva Hoffmann

University of Copenhagen,

Department of Cellular and Molecular Medicine

DNRF Center for Chromosome Stability,

Denmark

Reproductive longevity and ovarian aging in  
human

**03.30 – 05.00 pm**

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Session 2

Chair: Sophie Steculorum

03.30 – 03.45 pm

Imaz Khalid, Leibniz Institute on Aging, Jena

Proteostasis failure represents a candidate  
mechanism for the loss of dietary restriction  
capacity to improve hematopoietic stem cell  
function in aged mice

03.45 – 04.00 pm

Albert Kallon Koroma, Ulm University

Aged NK Cells Fail to Efficiently Kill Leukemia  
and Lymphoma Cells

04.00 – 04.15 pm

Jiongming Lu, Max Planck Institute for Biology of  
Ageing, Cologne

Amino acid sensing signal in the regulation of  
longevity in *Drosophila*

04.15 – 04.30 pm

Michael Milsom, German Cancer Research  
Center (DKFZ), Heidelberg

Inflammatory exposure drives permanent  
impairment of hematopoietic stem cell  
selfrenewal activity and accelerated aging.

04.30 – 04.45 pm

Chrysa Nikopoulou, Max Planck Institute for  
Biology of Ageing, Cologne

Singlecell resolution unravels spatial alterations  
in metabolism, transcriptome and epigenome of  
ageing liver

04.45 – 05.00 pm

Omrid Omani, Leibnitz Institute on Aging – FLI,  
Jena

Regeneration induced proteostasis stress  
impairs intestinal tissue restoration in old mice

**05.00 – 06.30 pm**

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POSTER SESSION

**06.45 pm Departure**

with tram to Maritim Hotel Köln, Heumarkt 20

DINNER PARTY

Friday, June 24

09.00 – 09.45 am

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## KEYNOTE LECTURE III

Introduction: Björn Schumacher

Joachim Lingner

Swiss Institute for Experimental Cancer  
Research (ISREC), CH

Challenges of Telomere Maintenance: ROS and  
TERRA Long Noncoding RNA

09.45 – 11.00 am

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Session 3

Chair: Thorsten Hoppe

09.45 – 10.00 am

Shahaf Peleg, FBN, Rostock

Enabling a metazoan to harness the energy of  
light and directly translate it to chemical energy  
(Energy replacement) extends life span

10.00 – 10.15 am

Juan Felipe Pérez Correa, RWTH Aachen University

Epigenetic clocks for mice based on age-associated regions that are conserved between mouse strains and human

10.15 – 10.30 am

Denise Posadas, Ulm University

BMP signaling promotes zebrafish heart regeneration by resolving replication stress

10.30 – 10.45 am

Tanja Schuster, Ulm University

Changes of the spatial distribution of the septin network within HSCs upon aging

10.45 – 11.00 am

Selina Stahl, Ulm University

Revealing the causal relationship between age-associated immune remodeling and age-related changes in the gut microbiome

11.00 – 11.30 pm

COFFE BREAK

11.30 – 12.30 am

Session 4

Chair: Collin Ewald

11.30 – 11.45 am

Carolin Thomas, ETH, Zurich

Identification and characterization of a novel natural polyacetylene and its antiaging and healthpromoting potential in cells, *C. elegans* and mice

11.45 – 12.00 am

Mona Vogel, Ulm University

Loss of metabolic heterogeneity in the hematopoietic stem cell population upon aging

12.00 – 12.15 pm

Siayo Wang, University of Cologne

H3K4me2 regulates the recovery of protein biosynthesis and homeostasis from DNA damage during development and aging

12.15 – 12.30 pm

Alexander Wolf, Nippon Medical School

How somatic mutations cause aging without causing aging

12.30 – 01.00 pm

FRITZ BOEGE PRIZES  
(Talk, Poster, Innovation)

CLOSING REMARKS

01.00 – 01.30 pm

SNACKS

01.30 – 02.30 pm

DGfA Member Assembly