

PROGRAMM

15th Annual Alliance for Healthy Aging Conference

From mechanisms of age-associated diseases to healthy aging

15th Alliance for Healthy Aging Conference

October 11–13, 2026, Cologne

Sunday, October 11th

CECAD Foyer and Lecture Hall

16:00 – 20:00	Registration
17:00 – 19:00	Trainee Round Table Event (Lecture Hall, by registration only)
19:00 – 21:00	Welcome Reception (by registration only)

Monday, October 12th

Max Planck Institute for Biology of Ageing – Foyer

8:00 – 18:30	Registration
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Max Planck Institute for Biology of Ageing – Lecture Hall

9:00 – 9:15	Welcome Statements Björn Schumacher, CECAD, Cologne
9:15 – 10:00	Keynote lecture: Emma Teeling University College Dublin <i>Repair, remove, resist: How do bats achieve extended healthspans?</i>

Session 1: Metabolism / Proteostasis / Nutrition

Chair: Björn Schumacher

10:00 – 10:20	Invited speaker: Constantinos Demetriades University Medical Center Groningen <i>Spatial Organization of Nutrient Signaling to mTORC1</i>
10:20 – 10:35	Brecht Attema ERIBA, University Medical Center Groningen <i>Elevated plasma bile acid levels are associated with cardiac alterations in mice and men</i>
10:35 – 10:50	Joris Demmers CECAD, Cologne <i>Transcription speed is controlled by mTOR via the super elongation complex</i>
10:50 – 11:05	Kazuto Kawamura Max Planck Institute for Biology of Ageing, Cologne <i>Restoration of biological age during prolonged fasting-refeeding mediated by a fasting-responsive linker histone</i>

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Session 1: Metabolism / Proteostasis / Nutrition

11:05 –	11:20	Ingrid van der Pluijm Erasmus University Medical Center, Rotterdam <i>XPG deficiency accelerates vascular aging via VSMC phenotypic switching and metabolic dysfunction, which is mitigated by dietary restriction</i>
11:20 –	11:35	Seda Koyuncu CECAD, Cologne <i>The aging factor EPS8 induces disease-related protein aggregation through RAC signaling hyperactivation</i>
11:35 –	11:50	Jonas Martin Schmidt Goethe University Frankfurt <i>Spatiotemporal Proteostasis Rewiring in Senescence Progression Revealed by Translatome & Mitochondrial Importome Analyses</i>
11:50 –	12:05	Kathrin Ulrich Saarland University, Saarbrücken <i>A redox-regulated chaperone in inter-tissue proteostasis regulation maintains a functional proteome and promotes healthy aging</i>
12:05 –	13:15	LUNCH

Session 2: Senescence

Chair: Gavin Richardson

13:15 –	13:35	Invited Speaker: Marco Demaria University Medical Center Groningen <i>Purinergic signaling reinforces an inflammatory SASP and promotes senescence-associated dysfunctions</i>
13:35 –	13:50	Daniela Costa Robert and Arlene Kogod Center on Aging, Mayo Clinic, Rochester <i>Tomatidine is a senotherapeutic compound that improves cognitive function and reduces cellular senescence in aged mice</i>
13:50 –	14:05	Helene Martini Mayo Clinic, Rochester <i>Mitochondrial metabolism and epigenetic crosstalk in senescent cells</i>
14:05 –	14:20	Allancer Nunes University of Minnesota <i>Agonists of extra-oral bitter taste receptors suppress cellular senescence and enhance GLP-1 secretion</i>

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Session 2: Senescence

- 14:20 – 14:35 **Lilian Sales Gomez**
Mayo Clinic, Rochester
Cellular Senescence in the Aging Liver Contributes to Cognitive Decline – Crosstalk between Liver and Brain
- 14:35 – 14:55 **Invited Speaker: Joao Passos**
Mayo Clinic, Rochester
Mitochondrial nucleic acids: drivers of Inflammaging
- 14:55 – 15:10 **Markus Schosserer**
Medical University of Vienna
Exploring ribosomal RNA modifications and corresponding snoRNAs in human skin cell senescence
- 15:10 – 15:25 **Boshi Wang**
ERIBA, University Medical Center Groningen
Sexually dimorphic expression of FABP5 favors tissue persistence of chemotherapy-induced senescence in male mice
- 15:25 – 15:45 **Invited Speaker: Xavier Revelo**
University of Minnesota
Cellular Senescence in Macrophages: Implications for Aging and Disease
- 15:45 – 16:15 COFFEE BREAK**

Session 3: DNA

Chair: Lene Juel Rasmussen

- 16:15 – 16:30 **Arturo Bujarrabal-Dueso**
Institute for Genome Stability in Aging and Disease, CECAD, Cologne
A Novel H2A.Z-Dependent Mechanism Underlies DREAM Complex Regulation of the DNA Damage Response
- 16:30 – 16:45 **Taiyu Ge**
Institute for Genome Stability in Aging and Disease, CECAD, Cologne
Vitamin B12 boosts H3K4me2 deposition to promote transcription recovery following DNA damage
- 16:45 – 17:00 **Isabela Santos Valentim**
Leibniz-Institut für Alternsforschung– Fritz-Lipmann-Institut, Jena
DREAMing of Healthy Aging: Deciphering the Molecular Links Between Sleep, Circadian Rhythms, and Cellular Repair

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Session 3: DNA

17:00 –	17:15	Ilze Skujina University of Galway, University College Dublin <i>Rapid DNA double-strand break repair as a candidate mechanism of exceptional longevity in the bat <i>Myotis myotis</i></i>
17:15 –	17:30	Seunghwa Woo Mayo Clinic, Rochester <i>Telo-CUT: A Telomere-Specific DNA Damage Model Reveals Drivers of Aging</i>
17:30 –	17:50	Invited Speaker: Morten Scheibye-Knudsen University of Copenhagen <i>Data driven interventions in human aging</i>
17:50 –	18:15	BREAK

CECAD Research Center, Foyers and 1st floor

18:15 – 22:00

from 18:30

Poster Session (with finger food and drinks)

Poster Flash Talks (4 minutes each)

Maarouf Baghdadi, Max Planck Institute for Biology of Ageing, Cologne

The combined treatment with rapamycin and trametinib partially recapitulates the in vitro molecular effects of genetic variants identified in exceptionally long-lived individuals

Mengyuan Cai, Erasmus MC, Rotterdam

Epigenetic Aging Indicators are Associated with Bone Mineral Density in a Population-Based Setting

Ariel Eraso, Senckenberg, Translational Biodiversity Genomics, Frankfurt

Aggregate Lifespan Encyclopaedia (ALE) – A new way to record animal lifespans

Ana Catarina Franco, Mayo Clinic, Rochester

A Spatial Multi-Omic Atlas of Cellular Senescence in Mouse and Human Skin

Angelina Job Kolady, CECAD, Cologne

Unravelling the role of H3K4me2 in response to DNA damage and transcription stress during development and ageing

Sandeep Kumar, Chulalongkorn University, Bangkok

Hesperidin and Melatonin Synergistically Enhance Longevity and Mitigate Amyloid-_τ Toxicity Through ACR-16-Dependent Activation of DAF-16/NRF2 Driven Autophagy

Joelina Lienau, University of Copenhagen

Old muscle, new rules: muscle derived FGF21 drives systemic resistance to protect failing muscle

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Christos Mavrommatis, University of Cologne / Mayo Clinic, Rochester

Methylation-associated Gene Expression (MaGE) proxies of cellular senescence: scalable systemic senescence biomarkers in relation to disease severity and 174 incident disease outcomes

Ayesha Sanober, IMB gGmbH, Mainz

Accelerated aging is a determinant of arterial thrombosis risk in individuals with low genetic and cardiovascular risk factor burden

Attila Sebe, University of Oulu

Lower blood cell mitochondrial DNA amount and inflammation associates with higher all-cause mortality and aging: a 30-year prospective epidemiological study

Feixiang Yan, Mayo Clinic, Rochester

A ttntv cardiomyopathy model in African Turquoise Killifish enables identification of aging hallmark-associated gerotherapeutic strategies

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Max Planck Institute for Biology of Ageing – Foyer

8:00 – 18:30 Registration/Information

Max Planck Institute for Biology of Ageing – Lecture Hall

Chair: Paul Robbins

9:00 – 9:45

Keynote Lecture: Guido Kroemer

Université de Paris Cité

ACBP/DBI: a pro-aging danger signal

Session 4: Immunology

9:45 – 10:05

Invited Speaker: Christina Camell

University of Minnesota

Chronic inflammation and organ dysfunction driven by an ageing immune system

10:05 – 10:20

Drake Alton

Robert and Arlene Kogod Center on Aging, Mayo Clinic, Rochester

Immune CD38 Overexpression Drives Systemic NAD Depletion and Physiologic Decline

10:20 – 10:35

Claudia Chini

Robert and Arlene Kogod Center on Aging, Mayo Clinic, Rochester

Inducible Chronic NAD Deficiency in Mice drives Inflammation and Cellular Senescence

10:35 – 10:50

Mauro Corrado

University of Cologne / CECAD

Suppression of T Cell-Driven Type I Interferons in Ageing Reveals Gut-Specific Vulnerability

10:50 – 11:05

David Achudhan

Mayo Clinic, Rochester

MMP12 drives senescence-related bone loss via the cGAS-STING pro-inflammatory pathway

11:05 – 11:20

Kavya Gupta

Mayo Clinic, Rochester

Rejuvenating the Aging Bone Marrow Niche to Mitigate Clonal Hematopoiesis via GLP-1 Mediated HSPCs Regeneration

11:20 – 12:45

LUNCH

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Session 5: Neuroscience

Chair: Folkert Kuipers

12:45 –	13:05	Invited Speaker: Anne Schäfer Max Planck Institute for Biology of Ageing, Cologne <i>Immunoregulatory Microglia in Alzheimer's Disease</i>
13:05 –	13:20	Alessandro Gialluisi LUM University, Casamassima & IRCCS Neuromed, Italy <i>Independent influence of multidomain aging clocks on cardio- and cerebro-vascular risk: evidence from an Italian population cohort</i>
13:20 –	13:35	Sara Graves Mayo Clinic, Rochester <i>Sex-specific benefits of p21 knockout in PS19 tauopathy female, but not male, mice</i>
13:35 –	13:50	Amanda Latham Mayo Clinic, Rochester <i>Characterizing Cellular Drivers of Cognitive Decline Across the Aging Mouse Hippocampus</i>
13:50 –	14:05	David H. Meyer University of Cologne, CECAD <i>Aging clocks delineate neuron types vulnerable or resilient to neurodegeneration and identify neuroprotective interventions</i>
14:05 –	14:20	Allyson Palmer Mayo Clinic; Rochester <i>Delirium and Long-Term Cognitive Trajectories in Cognitively Normal Older Adults: Insights from the Mayo Clinic Study of Aging</i>
14:20 –	14:35	Yossawat Suwanlikit Robert and Arlene Kogod Center on Aging, Mayo Clinic, Rochester <i>DNA Methylation-Based Clonal Hematopoiesis Burden Associates with Structural Brain Atrophy</i>
14:35 –	15:15	Coffee Break

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Session 6: Physiology

Chair: Nathan LeBrasseur

15:15 –	15:35	Invited Speaker: Simon Tual-Chalot Newcastle University <i>ADAR2 drives atherosclerosis by controlling metabolic inflammation</i>
15:35 –	15:55	Invited Speaker: Kristina Kirschner Mayo Clinic, Rochester <i>One clone, many diseases: blood mutations and the ageing body</i>
15:55 –	16:10	Andrea Heinz University of Copenhagen <i>Elastin remodeling and elastokine signaling in aging tissues</i>
16:10 –	16:25	Eduardo Chini Mayo Clinic, Rochester <i>NAD⁺ as a Therapeutic Lever for Renal Resilience in Perioperative Acute Kidney Injury</i>
16:25 –	16:40	Walter Sandt CECAD, Cologne <i>Evolutionary conserved diapause mechanisms of slowed aging and rejuvenation</i>
16:40 –	17:00	Invited Speaker: Fabian Finger University Copenhagen <i>Mitochondrial membrane lipid cardiolipin controls fiber-type adaptations in aging muscle via ERRγ</i>
17:00 –	17:20	Invited Speaker: Jane Reznick CECAD, Cologne <i>Young at Heart: neoteny and regeneration in the naked mole-rat</i>
17:20 –	17:35	Concluding remarks Nathan LeBrasseur, Mayo Clinic, Rochester

Cologne Brauhaus (by registration only)

19:00 – 22:00

Conference Dinner