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

Sunday, October 11th

CECAD Foyer and Lecture Hall

16:00–	20:00	Registration
17:00 –	19:00	Trainee Round Table Event
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

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 *Repair, remove, resist: How do bats achieve extended healthspans?*

Session 1: Metabolism / Proteostasis / Nutrition

Chair: Björn Schumacher

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

Monday, October 12th

Session 1: Metabolism / Proteostasis / Nutrition

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

Session 2: Senescence

Chair: Gavin Richardson

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

Monday, October 12th

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	**Xuanjing Li** University of Dublin *Bat blood transcriptomes and cell models reveal higher DREAM target gene expression despite conservation of the DREAM complex*

Monday, October 12th

Session 3: DNA

17:00 –	17:15	**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*
17:15 –	17:30	**Ilze Skujina** University of Galway, University College Dublin *Rapid DNA double-strand break repair as a candidate mechanism of exceptional longevity in the bat Myotis myotis*
17:30 –	17:45	**Seunghwa Woo** Mayo Clinic, Rochester *Telo-CUT: A Telomere-Specific DNA Damage Model Reveals Drivers of Aging*
17:45 –	18:05	**Invited Speaker: Morten Scheibye-Knudsen** University of Copenhagen *Data driven interventions in human aging*
18:05 –	***18:30***	***BREAK***

CECAD Research Center, Foyers and 1st floor

18:30 – 22:00 **Poster Session (with finger food and drinks)**
18:40 – ca. 19:20 **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-_ Toxicity Through ACR-16–Dependent Activation of DAF-16/NRF2 Driven Autophagy

Monday, October 12th

18:40 – ca. 19:20 Poster Flash Talks (4 minutes each)

Joelina Lienau, University of Copenhagen
Old muscle, new rules: muscle derived FGF21 drives systemic resistance to protect failing muscle

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 Turquois Killifish enables identification of aging hallmark-associated gerotherapeutic strategies

Tuesday, October 13th

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

Tuesday, October 13th

Session 5: Neuroscience

Chair: Folkert Kuipers

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

Tuesday, October 13th

Session 6: Physiology

Chair: Nathan LeBrasseur

15:15 –	15:35	**Invited Speaker: Simon Tual-Chalot** Newcastle University *ADAR2 drives atherosclerosis by controlling metabolic inflammation*
15:35 –	15:55	**Invited Speaker: Kristina Kirschner** Mayo Clinic, Rochester *One clone, many diseases: blood mutations and the ageing body*
15:55 –	16:10	**Andrea Heinz** University of Copenhagen *Elastin remodeling and elastokine signaling in aging tissues*
16:10 –	16:25	**Eduardo Chini** Mayo Clinic, Rochester *NAD^+ as a Therapeutic Lever for Renal Resilience in Perioperative Acute Kidney Injury*
16:25 –	16:40	**Walter Sandt** CECAD, Cologne *Evolutionary conserved diapause mechanisms of slowed aging and rejuvenation*
16:40 –	17:00	**Invited Speaker: Fabian Finger** University Copenhagen *Mitochondrial membrane lipid cardiolipin controls fiber-type adaptations in aging muscle via ERRγ*
17:00 –	17:20	**Invited Speaker: Jane Reznick** CECAD, Cologne *Young at Heart: neoteny and regeneration in the naked mole-rat*
17:20 -	17:35	**Concluding remarks**
17:45 -	18:45	**AHA Member meeting** (only by invitation, Sem 1, MPI AGE)

Cologne Brauhaus (by registration only)

19:00 – 22:00 **Conference Dinner**