

# The Cologne Aging Conference 2024

## *From Molecules to Complex Organisms*



# The Program

*Monday, Jan 29<sup>th</sup>, 2024*

8:30 Coffee

9:00 – 9:05 Welcome

### **SESSION I CHAIR: Henning Fenselau**

- 9:05 – 9:50 **KEYNOTE:**  
Susanne Mandrup Transcriptional control of adipogenesis – regulating the master switch (University of Southern Denmark, Denmark)
- 9:50 – 10:20 Sophie Steculorum Sensory programming of metabolism (CECAD Cologne, MPI for Metabolism Research, Germany)
- 10:20 – 10:50 Kazuhiro Nakamura Age-related ciliopathy: a mechanism of middle-aged obesity (Nagoya University Grad. School of Medicine, Japan)
- 10:50 – 11:20 Coffee Break

### **SESSION II CHAIR: Thorsten Hoppe**

- 11:20 – 11:50 Andrew Dillin The extracellular matrix integrates mitochondrial homeostasis (University of California Berkeley, USA)
- 11:50 – 12:20 Della David Strategies to mitigate age-dependent protein aggregation (The Babraham Institute, Cambridge, United Kingdom)
- 12:20 – 12:50 David Vilchez Cold temperature delays aging and proteostasis collapse (CECAD Cologne, Germany)
- 12:50 – 14:00 Lunch & Poster Session

### **SESSION III CHAIR: Jane Reznick**

- 14:00 – 14:30 Salvador Aznar Benitah (*hybrid*) Systemic communication during homeostasis and aging: role of circadian rhythms (IRB, Barcelona, Spain)
- 14:30 – 15:00 Eunjung (Alice) Lee Somatic mutation in aging and neurodegeneration (Boston Children's Hospital and Harvard Medical School, USA)
- 15:00 – 15:30 Ana Martin-Villalba The molecular secrets of stemness (DKFZ, Heidelberg, Germany)
- 15:30 – 16:00 Coffee Break

**SESSION IV CHAIR: Christina Ising**

16:00 – 16:30 Anne Schäfer The operational principles of neuron-microglia circuits (CECAD Cologne, MPI for Biology of Ageing, Germany)

16:30 – 17:15 **KEYNOTE:**  
Pekka Katajisto Aging of the stem cell niche (University of Helsinki, Finland and Karolinska Institutet, Sweden)

From 17:15 Poster session, Pitch your Project & Get-Together at MPI Age

## *Tuesday, Jan 30<sup>th</sup>, 2024*

8:30 Coffee

**SESSION I CHAIR: Gilles Storelli**

9:00 – 9:45 **KEYNOTE:**  
Ines Thiele Advancing computational medicine with whole-body metabolic modelling (National University of Ireland, Galway)

9:45 – 10:15 Filipe Cabreiro A quirky observation – 15 years of Microbial metabolism and Metformin (CECAD Cologne, Germany)

10:15 – 10:45 Anu Suomalainen  
Wartiovaara Mitochondrial progeria: nuclear DNA instability in stem cells (University of Helsinki, Finland)

10:45 – 11:15 Coffee break

**SESSION II CHAIR: Stephanie Panier**

11:15 – 11:45 Jan Vijg Somatic mutations in aging and disease (Albert Einstein College of Medicine, New York, USA)

11:45 – 12:15 Jan Hoeijmakers DNA damage and aging, from insight to intervention (Erasmus University Medical Center and Princess Máxima Center for Pediatric Oncology, The Netherlands, CECAD Cologne, Germany)

12:15 – 12:45 Ron Jachimowicz Human genome instability syndromes: Shedding light on DNA repair defects, ageing and cancer (CECAD Cologne, MPI for Biology of Ageing, Germany)

12:45 – 14:00 Lunch OR "Meet the Speakers' Lunch" Postdoc/PHD-Event

### SESSION III CHAIR: Mauro Corrado

- 14:00 – 14:30 Jan Karlseder Telomere to mitochondria signaling regulates replicative crisis and prevents cancer initiation  
(Salk institute for Biological Studies, La Jolla, USA)
- 14:30 – 15:00 Sara Hägg Longitudinal studies of human biological aging  
(Karolinska Institutet, Stockholm, Sweden)
- 15:00 – 15:30 Ana García-Sáez Molecular architecture of the apoptotic pore  
(CECAD Cologne, Germany)
- 15:30 – 16:00 Coffee Break

### SESSION IV CHAIR: Björn Schumacher

- 16:00 – 16:30 Sara Wickström Regulation of cell states by mechanical force  
(MPI for Molecular Biomedicine, Münster, Germany)
- 16:30 – 17:15 **KEYNOTE:**  
Emma Teeling The long and short of bat's extended longevity?  
(University College Dublin, Republic of Ireland)
- 17:15 – 17:30 Final conclusions and Goodbye
- From 18:30 Speakers' Dinner: Hotel Maritim – Rooftop Restaurant Bellevue *(Only Registered PIs & Speakers)*

Organized by  **CECAD**

**Henning Fenselau** (CECAD, Max Planck Institute for Metabolism Research)

**Thorsten Hoppe** (CECAD, Institute for Genetics, University of Cologne)

**Clara Lefranc** (CECAD, Postdoc, University Hospital Cologne, University of Cologne)

**Carien Niessen** (CECAD and Department Cell Biology of the Skin, University Hospital Cologne)

**Stephanie Panier** (CECAD, Max Planck Institute for Biology of Ageing, University Hospital Cologne)

**Jane Reznick** (CECAD, University Hospital Cologne, University of Cologne)

**Sophie Steculorum** (CECAD, Max Planck Institute for Metabolism Research)

**Gilles Storelli** (CECAD, Institute for Genetics, University of Cologne)

**CECAD Office** (Sibylle Grandel, Tanio Calabrese, Susanne Kutter, Maria Vilgertshofer)