

The Cologne Aging Conference 2024

From Molecules to Complex Organisms

January 29 – 30, 2024

Organized by **CECAD**

Venue: Max Planck Institute for Biology of Ageing
Joseph-Stelzmann-Str. 9b
50931 Köln

INFO: Please bring your poster printed in A0 format (841 × 1189 mm), portrait orientation. Tools to hang the posters will be provided directly at the poster walls.

For more info contact Tanio, g.calabrese@uni-koeln.de.

Poster sessions

Monday, January 29th

12:50 – 14:00 Lunch & Poster Session

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

Poster Numbers

Monday, January 29th

1. Stephanie A. Fernandes (Max Planck Institute for Biology of Ageing)
"Spatially and Functionally Distinct mTORC1 Entities Orchestrate the Cellular Response to Amino Acid Availability"
2. Aishwarya Acharya (Max Planck Institute for Biology of Ageing)
"mTORC1 activity licenses its release from the lysosomal surface"
3. Dr. Corinna Bauder (Max Planck Institute for Metabolism Research)
"Sensory food perception-dependent metabolic adaptation declines during aging"
4. Dr. Diba Borgmann (Max Planck Institute for Metabolism Research)
"Physical activity sensitizes vagal gut-brain communication underlying feeding control"
5. Sofie Burgmer (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Bacterial sensing regulates metabolism in the Drosophila intestine"
6. Leonie Cabot (Max Planck Institute for Metabolism Research)
"Role of GPR65+ vagal sensory neurons in obesity"
7. Laura Casanueva Reimon (Max Planck Institute for Metabolism Research)
"Diet-induced obesity dysregulates inflammatory signaling and lipid metabolism in the main olfactory epithelium"

8. Anna Diederich (Max Planck Institute for Biology of Ageing)
"Linker histone hil-1/H1FO is an evolutionarily conserved chromatin factor that responds to low nutrient status"
9. Tom Eisenack (Center for Molecular Medicine Cologne)
"I'm Still Standing: Exploring Ribosome Stalling in Protein Quality Control at the ER"
10. Juliet Erlenbeck-Dinkelmann (Max Planck Institute for Metabolism Research)
"Functional circuit mapping of vagal Gut-Brain communication"
11. Dr. Arthur Fischbach (Max Planck Institute for Biology of Ageing)
"Exporting and re-localizing protein aggregates by engineered Hsp104-mediated systems to study aging and disease"
12. Dr. Wenming Huang (Max Planck Institute for Biology of Ageing)
"Vitamin B12 alleviates Verheij syndrome defects in a *C. elegans* model"
13. Armel Hyoubi Kemgang (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Linear ubiquitination controls metabolic homeostasis during ageing and obesity"
14. Dr. Shuntaro Izawa (Max Planck Institute for Metabolism Research)
"Orexin receptor 2 has dual excitatory and inhibitory functions on MCH neurons that modulate sleep and metabolism"
15. Dr. Maria Sol Jacome (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"The naked mole-rat: a heart regeneration model?"
16. Anita Jopkiewicz (Max Planck Institute for Biology of Ageing)
"A phenotypic CRISPR-Cas9 screen to characterize the RNA-dependent chromatin response to UV-induced DNA lesions"
17. Dr. Lukasz Kaczmarczyk (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Provocation of aging in the exceptionally long-lived naked mole-rat via expression of progerin"
18. Dr. Kazuto Kawamura (Max Planck Institute for Biology of Ageing)
"Restoration of biological age during prolonged fasting-refeeding modulated by fasting-responsive linker histone"
19. Aparna Kelkar (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Gut microbes regulate transit and nutrient absorption in *Drosophila*"
20. Anna Eva Koch (Center for Molecular Medicine Cologne)
"Physiological causes of genome instability in aging: Identification and evaluation of G-loop-binding proteins"
21. Ellie Koletsou (Max Planck Institute for Biology of Ageing)
"RNA-binding proteins as modulators of the metabolic shift in differentiating neural stem cells"
22. Patrick Krüger (Max Planck Institute for Biology of Ageing)
"Pathogens co-opt senescent cells to establish chronic infections"

23. Dr. Qiaochu Li (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Cellular metabolism differentially regulates proteostasis in the cytoplasm versus outer mitochondrial membrane"
24. Dr. Marielle Minère (Max Planck Institute for Metabolism Research)
"POMC satiety neurons drive sugar consumption through a thalamic opioid signal "
25. Hasan Mosazadeh (Kazimierz Wielki University)
"Fear of COVID-19 and Poor Sleep Quality Among Older Adults Living in Residential Care Homes: Gender and Probable Causal Appraisal"
26. Shayan Motiei (Institute of biochemistry)
"The role of a redox-regulated chaperone in organismal aging"
27. Mara Neuerburg (Max Planck Institute for Biology of Ageing)
"*In vitro* functional characterization of rare genetic variants identified in exceptionally long-lived individuals"
28. Dr. Anne Petzold (University of Cologne)
"BDNF-expressing neurons of the lateral hypothalamus limit feeding in an obesogenic environment"
29. Priscilla Piccirillo (Center for Molecular Medicine Cologne)
"Loss of SIRT7 promotes G-quadruplex DNA mediated genome instability in Hutchinson Gilford Progeria Syndrome"
30. Sirin Salman (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Deciphering the neuroprotective role of CHIP in disease and ageing"
31. Klara Schilling (Max Planck Institute for Biology of Ageing)
"Regulation of longevity by an mTOR/steroid signaling axis in *C. elegans*"
32. Tim Schlegel (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Mechanisms to maintain mitochondria in axons and the role of RNA binding protein CLUH"
33. Jonas Schmidt (Institute of Biochemistry II - Goethe University Frankfurt)
"Characterizing mitochondrial protein import in replicative senescence"
34. Ayesha Sen (University Clinic of Cologne, University of Cologne)
"mtDNA integrity defines Satellite Cells determination into skeletal muscle fibres"
35. Dr. Priscila Shibao (Leibniz-Institut für Alternsforschung)
"Insights into Alzheimer's pathology: sleep deprivation exacerbates A β Aggregation and proteotoxicity in a *C. elegans* model"
36. Larissa Smulders (Max Planck Institute for Biology of Ageing)
"*In vivo* characterization of transgenic mouse lines harbouring rare protein-altering variants identified in long-lived individuals"
37. Stephanie Stephan (Institute for Lung Health - Giessen)
"Neonatal oxidative stress drives premature alveolar inflamm-aging through macrophage-derived IL-6"

38. Dr. Luke Tain (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Xrp1 governs the stress response and senescence-like program to spliceosome dysfunction"
39. Dr. Rebecca George Tharyan (Goethe University Frankfurt, Medical faculty)
"Global Cellular Proteome and Translational Landscape upon Stress-Induced Senescence"
40. Max Unfried (National University of Singapore)
"Lipid Aging Clocks as tools to predict pancreatic cancer survival and connecting cancer to inflammaging"
41. Önay Veli (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"RIPK1 is dispensable for β -cell survival in Diabetes"
42. Thibaut Vignane (Leibniz-Institut für Analytische Wissenschaften – ISAS – e.V. ISAS)
"Age-induced switch from protein persulfidation to sulfonylation drives aberrant phase separation and predisposes brain for neurodegeneration"
43. Maximilian Vonolfen (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"*Drosophila* HNF4 acts in distinct tissues to direct a switch between lipid storage and export in the gut"
44. Iuliia Vyshkvorkina (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Optimised glycogen handling to protect the naked mole-rat heart in ischaemia"
45. Nini Wang (University of Cologne)
"Investigation of the regulatory landscape of the long-lived naked mole-rat genome"
46. Matthias Weith (University of Cologne)
"Genetic effects on molecular network states explain complex traits"
47. Hannah Wilhelms (Max Planck Institute for Metabolism Research)
"The hypothalamic-pituitary-thyroid (HPT) axis regulates metabolic homeostasis"
48. Christina Efraimoglou (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Investigating novel regulators of DNA damage-induced apoptosis: A forward genetics approach"
49. Maria Pandrea (CECAD, Cologne Excellence Cluster for Aging and Aging-Associated Diseases)
"Coordination of DNA damage and aging by ubiquitin signaling and the ubiquitin-proteasome system"