

Thursday, July 4th
Symposium
W2 Professorship for
Computational and Systems Biology
of Aging and Aging-associated Diseases



Venue: CECAD, Joseph-Stelzmann-Str. 26, 50931 Köln, Lecture Hall

- 8:30 – 9:00 Carien Niessen Welcome & Introduction of CECAD
- 09:00 – 09:45 **Daniel Andergassen** (TUM Munich, Germany)
Lecture: „Epigenetics and its role in health and disease”
“Uncovering the missing X factors and their function to understand sex bias in disease”
- 09:45 – 10:30 **Philipp Antczak** (CMMC, UKK Cologne, Germany)
Lecture: “Feature selection in Biology: Genetic algorithm based feature selection”
„Predicting outcome(s) in chronic kidney disease”
- 10:30 – 10:40 Coffee Break
- 10:40 – 11:25 **Maximilian Billmann** (University of Bonn, Germany)
Lecture: „What I cannot break, I do not understand – How CRISPR gene perturbation screens help understand cell biology “
„Towards a foundational model of the cell biology of aging”
- 11:25 – 12:10 **Handan Melike Dönertas** (FLI, Jena, Germany)
Lecture: „Introduction to machine learning for biology and medical Students “
“Computational Approaches to Measure, Understand, and Intervene in Aging”
- 12:10 – 13:00 Lunch
- 13:00 – 13:45 **Anna Poetsch** (TU Dresden, Germany)
Lecture: „DNA language models in biomedical research“
“Using DNA language models to understand somatic evolution of genomes”
- 13:45 – 14:30 **Alena van Bömmel** (FLI, Jena, Germany)
Lecture: „DNA methylation and epigenetic clocks “
„Epigenetic signatures in aging and cancer”

Online Link:

<https://uni-koeln.zoom.us/j/95569451117?pwd=aTTCJfhHLP9FX3OY3S6Rkd7EU7M8B.1>

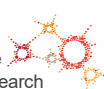


**UNIKLINIK
KÖLN**

MAX PLANCK INSTITUTE
FOR BIOLOGY OF AGEING



Max Planck Institute
for Metabolism Research



DZNE
Deutsches Zentrum für
Neurodegenerative Erkrankungen
in der Helmholtz-Gemeinschaft

DFG Deutsche
Forschungsgemeinschaft