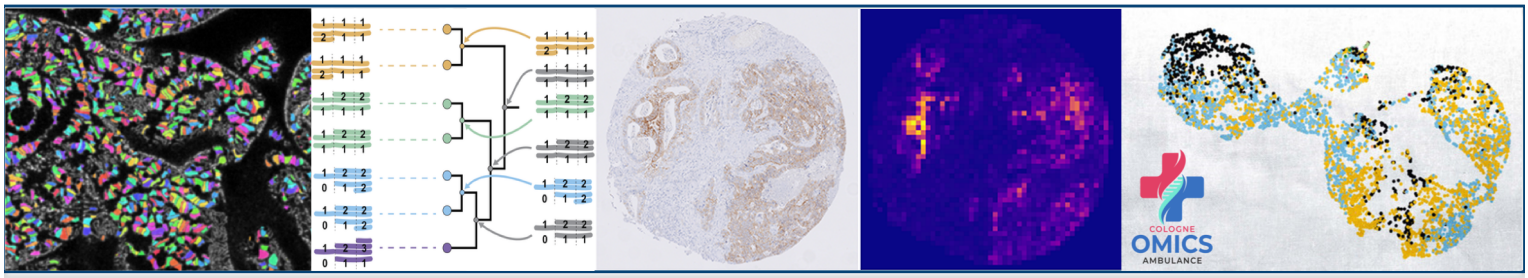
Web-Lecture Molecular Medicine

Zooming in …

Computational Approaches in Biomedicine

Winter term 2022/23 – Thursdays, 12 - 1 p.m.



20.10.22 **Integration of transcriptomics data with computational models**
Anže Županič | National Institute of Biology, Ljubljana

27.10.22 **Multi-omics data integration for understanding disease mechanisms**
Andreas Beyer | Cellular Networks and Systems Biology, CECAD & CMMC

10.11.22 **Improving biological knowledge through computational biology**
Philipp Antczak | Lab. of Computational Biology of Ageing, CMMC

17.11.22 **Transcriptomic data integration to quantify cell damage at single-cell level**
Martin Kann | Department Internal Medicine II & CECAD

24.11.22 **Unravelling the power of multivariate modelling and machine learning in life sciences**
Eva Caamano Gutierrez | Inst. of Systems, Molecular & Integrative Biology, Univ. of Liverpool

01.12.22 **Learning health systems: bridging from AI to practice**
Oya Beyan | Institute for Medical Informatics

08.12.22 **Chromosomal instability and cancer evolution**
Roland Schwarz | Computational Cancer Biology

15.12.22 **Quantifying information in bioimage data**
Kasia Bozek | Inst. for Med. Informatics - Lab. of Data Science of Bioimages, CMMC

12.01.23 **tba**
Julie George | Clinics Head & Neck Surgery, Department of Translational Genomics

19.01.23 **Data science in a radiology department - towards tailored solutions**
Liliana Lourenco Caldeira | Inst. of Diagnostic and Interventional Radiology

26.01.23 **Biostatistical challenges in single cell omics**
Achim Tresch | Inst. of Med. Statistics and Computational Biology & CECAD

Organization & further information:

K. Bozek | Inst. for Med. Informatics, Lab. of Data Science of Bioimages, CMMC
P. Antczak | Lab. of Computational Biology of Ageing, CMMC
C. Niemann | CMMC, Coordinator IPMM Scientific Curriculum

In cooperation with

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