

Thursday February 22nd

09:30	10:00	Welcome breakfast	
Deep learning in Biology and Medicine (chair: Sven Bergmann)			
10:00	10:30	Peter Krawitz Rheinische-Friedrich-Wilhelms-Universität Bonn	<i>Can we deduce gene-gene interaction from image analysis?</i>
10:30	11:00	Janna Hastings University of St. Gallen, University of Zurich	<i>Ontology pre-training improves deep learning prediction of toxicity</i>
11:00	11:30	Coffee break	
11:30	12:00	Marianna Rapsomaniki University of Lausanne & CHUV	<i>Learning transferable representations of cells with multimodal AI</i>
12:00	12:30	Raphaëlle Luisier Idiap Research Institute, Martigny	<i>Decoding Amyotrophic Lateral Sclerosis through rapid and unbiased generation of hypotheses combining AI and high content imaging</i>
12:30	12:50	University of Lausanne Core Research Facilities Flash Talks	
12:50	14:30	Lunch	
Variation in genome structure and organization (Chair: Sebastian Soyk)			
14:30	15:00	Michael Hiller Centre for Translational Biodiversity Genomics, Senckenberg Research Institute, Germany	<i>Linking phenotypic differences between species to differences in their genomes</i>
15:00	15:30	Korbinian Schneeberger LMU, Munich, Germany; MPI for Plant Breeding Research, Cologne, Germany	<i>The genomics of a tetraploid crop</i>
15:30	16:00	Coffee break	
16:00	16:30	Aurora Ruiz-Herrera Universitat Autònoma de Barcelona, Spain	<i>The plasticity of 3D genome architecture: implications for evolution and fertility</i>
16:30	17:00	Maria Cristina Gambetta University Lausanne	<i>Wiring regulatory elements to their target genes in 3D</i>
17:00	17:30	Apero	

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Metabolomics – Towards understanding biological interaction (Chair: Philipp Engel)			
10:00	10:30	Adria LeBoeuf University of Cambridge, UK	<i>Metabolic division of labor across the superorganism</i>
10:30	11:00	Itzik Mizrahi Ben Gurion University of the Negev, Israel	<i>Metabolites as Key Drivers of Microbial Community Assembly and Interactions"</i>
11:00	11:30	Coffee break	
11:30	12:00	Emma Slack ETHZ	<i>Tracking microbiome metabolism in real-time</i>
12:00	12:30	Gioele La Manno EPFL	<i>Building a 4D lipidomics atlas of embryogenesis</i>
12:30	12:50	University of Lausanne Core Research Facilities Flash Talks	
12:50	14:30	Lunch	
Single cell and spatial transcriptomics (Chair: Tanja Schwander)			
14:30	15:00	Alexander Meissner Max Planck Molecular Genetics, Berlin, Germany	<i>Early developmental dynamics in the mouse</i>
15:00	15:30	Giulia Zancolli University of Lausanne, Department of Ecology and Evolution	<i>Spatial functional specialization of a venom factory</i>
15:30	16:00	Prof. Knut Drescher University of Basel, Biozentrum	<i>Spatiotemporal transcriptomes during development of bacterial communities reveal supra-generational cooperation</i>
16:00	16:30	Apero	