

THURSDAY, JUNE 19, 2025

8:30 am • 9:00 am 9:00 am • 9:15 am	Registration & coffee Welcome address by Holger Gerhardt, Deputy Scientific Director of the Max Delbrück Center
	SESSION 1 Sequencing at Scale – Tools to Decode Life's Molecular Code Chair: Juliana Roscito
9:15 am • 10:00 am	Ulf Landegren, Uppsala University, Sweden Tools to analyze very many molecules – and even very few
10:00 am • 10:15 am	Daniel Léon-Periñán, MDC-BIMSB, Berlin, Germany Malva: Real-time Sequence Search across Billions of Cells
10:15 am • 11:00 am	Camille Marchet, CNRS, Université de Lille, France Scaling genomic reuse: hypothesis and algorithms for k-mer collections
11:00 am • 11:30 am	Coffee break
	SESSION 2 Expanding the Map – Inclusive Transcriptomics Across Species and Populations Chair: Nick Gilbert
11:30 am • 12:15 pm	Vinicius Maracaja-Coutinho, University of Chile, Santiago, Chile Addressing inclusion in transcriptomic studies: from animal models to human single-cell biology
12:15 pm • 12:30 pm	Can Ergen, UC Berkeley, USA ResolVI – addressing noise and bias in spatial transcriptomics
12:30 pm • 12:45 pm	Tilman Hoffbauer, Technical University of Munich, Germany DNA language model based modelling of transcription start sites in twelve yeast species
12:45 pm • 1:00 pm	Olga Bakina, Charité – Universitätsmedizin Berlin, Germany RNA 4SU metabolic labeling in human retinal organoids under dissociation, glucose deprivation and light exposure
1:00 pm • 1:10 pm 1:10 pm • 3:00 pm	Group photo Lunch & poster session

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SESSION 3 The RNA World – Mapping Viromes and Health Across Urban and Global Landscapes Chair: Markus Landthaler
Helder Nakaya, University of São Paulo, Brazil AI for Health: From Precision Diagnostics to Pandemic Preparedness
Alexander Lucaci, Weill Cornell Medicine, New York City, USA Diversity and Distinctive Traits of the Global RNA Virome in Urban Environments
Udo Gieraths, Charité – Universitätsmedizin Berlin, Germany A century-old museum sample reveals a bandavirus with modern day presence in northern European bats
Marion Koopmans, Erasmus Medical Center, Rotterdam, the Netherlands TBA



FRIDAY, JUNE 20, 2025

8:30 am • 9:00 am	Registration & coffee
	SESSION 4 Systems Medicine for a Connected World – Modeling Immune Responses and Disease Outcomes Chair: Antonio Jacinto
9:00 am • 9:45 am	Beate Kampmann, Charité Center for Global Health, Berlin, Germany A systems-biology approach to unravel the ontogeny of the immune system in newborns and the impact of vaccination
9:45 am • 10:00 am	Natalia von Staa Mansur, University of São Paulo, Brazil Graph Neural Networks in Precision Medicine: Predicting Clinical Outcomes of Infectious Diseases
10:00 am • 10:45 am	Grace Androga & Brenda Kwambana Adams, Malawi Liverpool Wellcome Programme, Blantyre, Malawi Genomics without borders to inform vaccine deployment against outbreak prone bacteria in Africa
10:45 • 11:15	Coffee break
	SESSION 5: Building Genomic Infrastructure for Planet Earth Chair: Ashley Sanders
11:15 am • 12:00 pm	Alfred Ngwa , MRC Unit, The Gambia, London School of Hygiene & Tropical Medicine, UK <i>Evolutionary dynamics and malaria transmission in Africa</i>
12:00 pm • 12:15 pm	Jonathan Wood, Wellcome Sanger Institute, Hinxton UK Tree of Life – generating reference genomes at scale
12:15 pm • 1:00 pm	Tobias Marschall, Heinrich Heine University, Düsseldorf, Germany Pangenome based analysis of structural variation
1:00 pm • 2:00 pm	Lunch

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	SESSION 6: Ecosystems in Sequence – Adaptive Genomics from Crops to Coasts Chair: Sofia Forslund
2:00 pm • 2:45 pm	Jörg Becker, NOVA University of Lisbon, Portugal Harnessing male germ line transcriptomics to develop heat- resilient crops
2:45 pm • 3:00 pm	Cristina Moraru, University of Duisburg-Essen, Germany Impact of Viral Microdiversity on the Virocell Transcriptome in a Marine Heterotrophic Bacterium
3:00 pm • 3:15 pm	Shuba Varshini Alampalli, Charité – Universitätsmedizin Berlin, Germany Living on the Edge: Seasonal Microbial Shifts in Coastal Oceans
3:15 pm • 4:00 pm	Detlev Arendt, EMBL, Heidelberg, Germany Hotspots of cellular variation
4:00 pm	Closing remarks