

AI FOR SYSTEMS MEDICINE

- 22.10.2025 **Nikolaus Rajewsky (MDC BIMSB, Berlin)**
Computing Mechanisms from Single-Cell Resolution Data
- 05.11.2025 **Altuna Akalin (MDC BIMSB, Berlin) - mostly online, room 1.04**
How AI is Changing Life Sciences Research
- 19.11.2025 **Julia Vogt (ETH Zürich)**
From Models to Medicine: Theoretical Foundations and Practical Impact of Machine Learning in Healthcare
- 26.11.2025 **Alex Schug (KIT), Karlsruhe**
Deciphering RNA: From Statistical Signals to Foundation Models
- 03.12.2025 **Michael Robson (MDC BIMSB, Berlin) - mostly online, room 1.04**
Silencing in Motion – Decoding how Heterochromatin Dynamics Regulate Cell Fate
- 10.12.2025 **Grégoire Montavon (Charité / BIFOLD)**
Uncovering Input-Target Associations with Explainable AI
- 17.12.2025 **Helene Kretzmer (MPI Dahlem, HPI, Berlin)**
Epigenetic Classification of Tumors
- 14.01.2026 **Isabella Jørgensen (Novo Nordisk, Denmark)**
Population-Wide Disease Trajectories for Systems Medicine
- 21.01.2026 **Alina Bazarova (FZ Jülich)**
Multi-modal Integration for Biological Tasks: Perks, Caveats and Applications
- 28.01.2026 **Dagmar Kainmüller (MDC BIMSB, Berlin)**
AI-based Cell Phenotyping
- 04.02.2026 **Hinrich Böger (UC Santa Cruz)**
Breaking Reversibility in Eukaryotic Gene Regulation: Enhancing Activator Specificity via Energy Coupling
- 18.02.2026 **Peter Koo (CSHL, US)**
Interpreting and Designing Regulatory DNA with Deep Learning
- 25.02.2026 **Markus Mittnenzweig (MDC BIMSB, Berlin)**
Spatiotemporal trajectories of cellular differentiation during embryonic development
- 13.03.2026 **Charlotte Bunne (EPFL, Switzerland)**
10:00 am Virtual Patient Labs: AI-Driven Simulation and Diagnostics for Precision Oncology
- 25.03.2026 **Victor Greiff (University of Oslo, Norway)**
Prediction of Adaptive Immunity

Organizers:
Melissa Birol
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