

Advancing Single-Cell Multi-Omics: Multimodal Technologies for Functional Analysis and Therapeutic Discovery

MDC – BIMSB
Seminar room o.61
Elsa Neumann

September 11, 2025

13:00 – 13:10	Stefan Kempa, Christoph Krisp Welcome
13:10 – 13:45	Tim Welsink (InVivo) Discover novel opportunities in antibody discovery, cell line development and functional single-cell analysis with Beacon® optofluidic technology
13:45 – 14:20	Leif Ludwig (BIH) Mitochondrial DNA mosaicism and clonality through the lens of single-cell multi-omics
14:20 – 14:55	Break
14:55 – 15:30	Guido Uhlenbrock (Bruker Biosensors) Characterizing membrane-associated molecular interactions directly on cells using single-cell Interaction Cytometry
15:30 – 15:05	Agnieszka Ryback (MDC) Brain organoid technologies to model human brain diseases
15:05 – 16:40	Silvia Würtenberger (PreOmics) Triple insight: Unified tissue homogenization enables in-depth proteomics, metabolomics, and glycomics from low-input samples
16:40 – 16:50	Stefan Kempa, Christoph Krisp Closing remarks