

NOVEMBER 20, 2025

9:30 - 16:20

HYBRID:

BIMSB (Elsa Neumann room) & Zoom

**MAX
DELBRÜCK
CENTER**

SPATIAL SPECIAL

TECHNOLOGY & TRAINING

Session 1: Spatial transcriptomics

Host: Thomas Conrad (MDC)

- 09:30 Thomas Conrad (MDC) Introduction
- 09:45 Artür Manukyan (MDC) Single cell spatial landscapes of melanoma brain metastases/Voltron
- 10:10 Anna Myronova (MDC) A single-cell and spatial transcriptomic atlas of multicellular remodeling in human HFpEF
- 10:35 Yoichiro Sugimoto (MDC) Spatial analysis of mitochondrial genomic variation to understand mitochondrial turnover in ageing
- 11:00 Marie Schott & Daniel León-Periñán (MDC) Open-ST: DIY high-resolution spatial transcriptomics in 2D and 3D

11:30 – 12:30 Lunch break

Session 2: Imaging

Host: Anja Hauser (DRFZ)

- 12:30 Alina Grofe (DRFZ) 3D analysis of aging-induced changes in bone using light sheet microscopy - from the single cell scale to the whole organ
- 12:55 Alexander Fiedler (FU Berlin) Micro-endoscopic metabolic imaging reveals new functional insights for single myeloid cells during bone regeneration
- 13:20 Henrike Germar (Charité) Multimodal spatial characterization of immune niches in oral inflammatory disease
- 13:45 Helena Radbruch & Raphael Raspe (Charité) Multiplexed viral detection in brain tissue - methodological challenges and opportunities

14:10-14:30 Coffee break

Session 3: Spatial proteomics

Host: Fabian Coscia (MDC)

- 14:30 Fabian Coscia (MDC) Multi-scale spatial proteomics: Marrying microscopy, deep learning and single-cell proteomics
- 15:05 Jose Nimo (MDC) Empowering collaborative spatial proteomics through OpenDVP
- 15:30 Anuar Makhmut (MDC) Advancing early disease profiling through spatial proteomics: Insights from high-grade serous ovarian cancer
- 15:55 Hanna Hörnberg (MDC) Neuroproteomics: Layer- and cell-type-specific signatures of stress resilience

16:20 End of event

Organizers: Janine Altmüller, Thomas Conrad,
Anja Hauser, Fabian Coscia
Supported by ESS
Registration: [Please click here](#)

