

# Basel Spatial OMICS Meeting 2025

September 4th  
Pharmazentrum Hörsaal 1

## Program

Session one: Biological applications of Spatial Omics  
Session chairs: Sheida Hadji Rasouliha and Mariana Ribeiro

- 13:00-13:10 Introduction
- 13:10-13:25 Building an in vitro chondrogenesis cell atlas / Image mass cytometry (IMC) - *Adrien Moya (DBM)*
- 13:25-13:40 Spatially-resolved analysis of cancer-infiltrated nerves identifies DRAXIN as injury response gene with tumor suppressive potential - *Aleksandra Ozga (D-BSSE)*
- 13:40-13:55 Spatiotemporal bone marrow reconstitution after transplantation in AML patients - *Evi Vlachou (DBM)*
- 13:55-14:10 Studying developmental gene expression programs influencing cortical wiring with MERSCOPE - *Shirley Dixit (Biozentrum)*
- 14:10-14:25 Comprehensive analysis of PhenoCycler images from mouse models and human ADPKD kidney samples - *Nils Eling & Zuzanna Kuczynska (Novartis)*
- 14:25-14:40 Flash talks by sponsors
- 14:40-14:55 Panel discussions
- 14:55-15:35 Coffee break

Session two: Technological developments in Spatial Omics  
Session chairs: Ivan Berest and Julien Roux

- 15:35-15:50 Overview of available technologies in core facilities in Basel
- 15:50-16:05 Linking immune cell interactions to their molecular makeup at scale - *Yannik Severin (BIIE)*
- 16:05-16:20 Odor valence selectively maps to spatially and transcriptionally distinct interneurons within the olfactory bulb - *Oded Mayselless (Biozentrum)*
- 16:20-16:35 Mapping neuronal activity to gene expression profiles in the brain - *Takahiro Kanamori (FMI)*
- 16:35-16:50 Morphology, gene expression & AI: Joining forces to decode tissue architecture - *Alberto Valdeolivas Urbelz (Roche)*
- 16:50-17:05 Mitigating Batch Effects in Phenotypic Screening with Self-Supervised Learning - *Sergei Pnev (DBE)*
- 17:05-17:20 Panel discussions
- 17:20-17:25 Closing remarks
- 17:25-18:30 Networking apéro

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