# Hyperflow 2025

***8. & 9.5.2025***

***AKH Wien, Währinger Gürtel 18-20, Hörsaalzentrum Ebene 8, HS5, 1090 Wien***

**Thursday, 8.5.2025**

**13:00 – 13:45 Opening Lecture**

Machine Learning for Flow Cytometry Analysis: Basics and the Difference between Apples, Pears and Plums in Leukemia Diagnostics
***Matthias Wödlinger & Michael Reiter, Children's Cancer Research Institute, Vienna and Technical University Vienna, Vienna***

**13:45 – 14:25 Challenging Data Analysis**

Multimodal characterization of immune cells from NSCLC patients by single cell sequencing
***Mieke Nicolai, Medical University Innsbruck, Innsbruck***

Understanding immune dynamics in chronic lung disease via multivariate methods
***Leigh Marsh, Medical University Graz, Graz***

**14:25 – 15:15 Break**

**15:10 – 16:50 Clinical and Multi-Parametric Challenges**

Switch-ALL with DUX4-Rearrangment – a New Entity
***Alice Bramböck & Dagmar Schinnerl, Children's Cancer Research Institute, Vienna***

Diagnostic chances by spectral flow cytometry for inborn errors of the immune system
***Marija Simonovic, Medical University Vienna, Vienna***

Advanced CSF Immunophenotyping in Multiple Sclerosis Using Spectral Flow Cytometry
***Sina Zaic, Medical University Vienna, Vienna***

Assessing cellular dynamics during the human LPS challenges repeated after 1 year
***Anselm Jorda, Medical University Vienna, Vienna***

Spectral Flow Cytometry for Deep Immune Phenotyping of iPS-derived Cardiomyocytes
***Nicole Maeding, Paracelsus Medical University, Salzburg***

**16:50 – 17:30 Break**

**17:30 – 18:30 Challenging Cells and Tissue**

Flow cytometry of erythroid cells - challenges and opportunities
***Michael Eigenschink, Medical University Vienna, Vienna***

Comprehensive Flow Cytometry Analysis of Neutrophil Function and Phenotypic Diversity
***Julia Kargl, Medical University Graz, Graz***

Enhancing peripheral nerve repair: MSC-EVs and their effects on Schwann cells
***Maximilian Härtinger, Medical University Vienna, Vienna***

**19:15 -23:00** Joint Dinner - *"Gastwirtschaft Heidenkummer"*, Breitenfelder Gasse 18, 1080 Wien
**Registration and fee required (see below)**

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***Friday, 9.5.2025***

**08:45 – 10:05 Technical Challenges**

Solving technical issues in flow cytometry – steric inhibition and antibody usage
***Kerstin Mair, University of Veterinary Medicine, Vienna***

Nanobodies-A Game Changer in Small-Particle-Detection?
***Marwa Mostageer, Danube University Krems, Krems***

Unlocking Spatial Proteomics - High-Resolution Tissue Mapping with MACSima™
***Anna Smolka, Medical University Vienna, Vienna***

First year with the S8 - first love and first chagrins
***Sebastian Peer, Medical University Innsbruck, Innsbruck***

**10:05 – 10:50 Break**

**10:50 – 12:30 Challenges in Cell biology**

Why many Biologists are not aware of flow cytometry to make clean cell cultures?
***Remias Daniel, Paris Lodron University Salzburg, Salzburg***

Resolving 13 fluorescent proteins with spectral flow cytometry
***Florian Ebner, Böhringer Ingelheim, Vienna***

Understanding cell states and their temporal dynamics during the formation of the first stem-cell niche in plants
***Zohar Meir, GMI – Austrian Academy of Sciences, Vienna***

How selective autophagy begins: two pathways, one goal
***Elias Adriaenssens, Max Perutz Laboratories, Vienna***

Tumor-induced changes in lymph node architecture
***Carolina Mangana, Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna***

**Participation in the event is free of charge,** but for organizational reasons we ask for registration by email ***by 25.4.2025*** to: andreas.spittler@meduniwien.ac.at.

The conference is approved for the *Diploma Training Program of the ÖÄK* with **9 Medical DFP** and by *biomed austria - Austrian Professional Association of Biomedical Analysts* with **9 CPD Points**.

For the ***Joint Dinner*** a contribution towards expenses **of 30€** will be charged.
We ask for payment ***until 25.4.2025*** to the account of the OEGfZ:
**IBAN:** AT 761200050278943400, **BIC:** BKAUATWW
Please indicate **"HyperFlow 2025"** and the name of the participant as reason for payment!

Version of 18.3.2025, subject to any changes