



DEEP VISUAL PROTEOMICS WORKSHOP
VIENNA, AUGUST 25TH 2025

DVP workshop

Intro

9:00 - 9:10 Start of workshop, short intro round of all speakers, overview of the workshop

9:10 - 9:30 Spatial proteomics and deep visual proteomics intro
Fabian Coscia

Staining & imaging, current protocols + tips and tricks

9:30 – 10:00 Optimizing staining & imaging for laser microdissection-based proteomics
Sonja Fritzsche

10:00 – 10:30 Considerations for image acquisition and analysis
Jose Nimo

10:30 – 10:45 **Coffee**

Image analysis tutorial (BIAS)

10:45- 11:00 Image Analysis basics with BIAS
Andras Kriston

11:00 – 12:00 BIAS intro and start of practical tutorial
Ede Migh, Andras Kriston, Ferenc Kovacs

12:00 – 12:45 BIAS tutorial continued: Technical and practical details of laser microdissection with BIAS
BIAS Q/A (all team)
Ferenc Kovacs, Ede Migh

12:45 – 13:30 **Lunch**

Single-cell / low input tissue prep and ultrasensitive MS

13:30 – 14:00 Which cells to pick from a heterogeneous tissue?
Florian Rosenberger

14:00 – 14:30 From shape to data – Peptide preparation and mass spectrometry acquisition
Marvin Thielert

14:30 – 15:00 Wrap-up and Q&A: All speakers



6TH EUROPEAN SYMPOSIUM ON SINGLE CELL
PROTEOMICS

VIENNA, AUGUST 26 - 27TH 2025

August 26 th	8:00	Registration		
	9:00 – 9:10	Opening Remarks <i>Karl Mechtler & Manuel Matzinger</i>	14:00 – 14:30	Quantifying proteins below their limit of detection: Development of novel single cell proteomics by MS approaches <i>Jakob Paul Woessmann</i>
	9:10 – 9:40	Single cell proteomics defines discrete neutrophil functional states with potential therapeutic targets in human glioblastoma <i>Alejandro Brenes</i>	14:30 – 15:00	Single Cell Analysis of Protein Signaling Networks in Leukemia Stem Cells Upon Chemotherapeutic Perturbation <i>Pedro Aragón Fernández</i>
	9:40 – 10:10	Light-SCOPE technique for spatial tissue analysis at single cell resolution <i>Bogdan Budnik</i>	15:00 – 15:15	In situ subcellular proteomic profiling of pathological protein aggregates in fixed human brain tissue <i>Wilfried Rossol</i>
	10:10- 10:40	Quantitative accuracy in single cell proteomics <i>Vadim Demichev</i>	15:15 – 15:30	Leveraging Single-Cell Proteomics for Human Biofluids <i>Jackson Miyamoto</i>
	10:40 – 10:55	Benchmarking Batch Correction Methods for Single-Cell Proteomics of Clinical Samples <i>Maico Lechner</i>	15:30 – 17:00	Poster session (with refreshments)
	10:55 – 11:30	Coffee	17:00 – 17:30	<i>Tami Geiger</i>
	11:30 – 12:00	Affinity purification mass spectrometry: the next frontier of single-cell and low-input proteomics <i>Ying Zhu</i>	17:30 – 18:00	Evaluation of novel pressure- and electric field-driven liquid phase separations in proteomic and multi-omic analysis of single-cells and limited samples. <i>Alexander Ivanov</i>
	12:00 – 12:30	How to analyse single-cell proteomics data and focus on the underlying biology? <i>Laurent Gatto</i>	18:00- 18:15	TGF-β inhibition partially ameliorates reactive changes in VCP-ALS astrocytes at single cell resolution <i>Stan Majewski</i>
	12:30 – 13:00	Maternal smoking in early pregnancy disrupts placental function through fetο-maternal barrier and macrophage dysregulation <i>Daniela S. Valdes</i>	18:15- 18:30	Unraveling drug resistant proteotypes through phenotype-resolved proteomics of single-cell derived colonies <i>Di Qin</i>
	13:00 – 14:00	Lunch	From 18:30	Symposium dinner
August 27 th	9:00 – 9:30	Applying lessons learned from single-cell proteomics to any sample, reducing the cost of proteome profiling to \$10 <i>Ryan T. Kelly</i>	13:40 – 14:10	Scalability in Single-Cell Proteomics in label-free and label-based applications using Fast Chromatography on the timsUltra AIP <i>Christoph Krisp</i>
	9:30 – 10:00	Towards a unified scverse framework for all things single-cell <i>Mikaela Koutrouli</i>	14:10 – 14:40	Unlocking Metabolic Diversity in Liver Disease with Single-Cell DVP <i>Florian Rosenberger</i>
	10:00 – 10:30	<i>Aline Martins</i>	14:40 – 14:55	Spatial proteomics reveals distinct protein patterns in cortical migration disorders caused by LIN28A overexpression and WNT activation. <i>Jelena Navolic</i>
	10:30 – 10:45	Single-cell proteome atlas of the mouse spleen <i>Selin Ulukaya</i>	14:55- 15:10	Streamlined Phosphoproteomic Analysis of Rare Quiescent Cancer Cells <i>Silvia Surinova</i>
	10:45 – 11:20	Coffee	15:10 – 15:45	Coffee
	11:20 – 11:50	Single-Cell Proteomics: Lessons learned from clinical sample analysis <i>Adriana F. Paes Leme</i>	15:45 – 16:15	In-situ spatial visual proteomics with subcellular resolution <i>Ruijun Tian</i>
	11:50 12:35	Recent developments within the Proteomics Technology Hub at IMP <i>Julia Bubis, Anna Cusa, Thomas Isele, Manuel Matzinger, Rupert Mayer, Tim Thierer</i>	16:15 – 16:45	Integrative Multi-Omics profiling of intratumor heterogeneity <i>Harmjan Vos</i>
	12:35 – 13:40	Lunch	16:45- 17:00	Award ceremony & closing remarks <i>Karl Mechtler & Evelyn Rampler</i>