

# Swiss Proteomics Meeting 2026

23-24 April 2026

Holiday Inn Bern - Westside



## PROGRAM - Thursday 23<sup>th</sup> April 2026

**12:00-13:00 Registration & Welcome Coffee**

13:00-13:05 **Welcome** – Alexander Schmidt (BioZentrum) & LS<sup>2</sup> Proteomics Board

**13:05-14:32 Oral Session I: (Chair: Manuel Tzouros)**

**13:05-13:50 Keynote 1:**

**Anne-Ruxandra Carvunis** (ETH Zurich, Institute of Molecular Systems Biology, CH) -  
The Dark Proteome: a new frontier for systems biology and proteomics

### Oral and Flash presentations - Post-translational modifications

13:50-14:02 Baerenfaller Katja (University of Zurich) - Protein Prenylation in Th1 Cells: Novel C-Terminal Prenylation Motifs, Internal Prenylation, Protein Isoforms, and Effects of Statin Treatment

14:02-14:06 Marchal Pierre (University of Bern) - Investigating for N-glycoproteins dynamics in blood along the evolution of pleural mesothelioma cancer

14:06-14:10 Bionda Noemi (ETH Zurich) - Streamlined TMT-phosphoproteomics processing and analysis pipeline

14:10-14:14 Zenuni Bujar (University of Fribourg) - Unraveling the regulation and function of the PI3P phosphatase MTMR2 in macroautophagy

14:14-14:18 Wedemann Linda (EPF Lausanne) - Species-specific diacylglycerol signaling – peeking behind the mask of lipid classes

14:18-14:22 Cherière Joséphine (University of Fribourg) - New approaches to screen for novel direct mTORC1 targets

**14:22-14:32 Sponsored talk - SomaLogic (part of Illumina)**

Eshita Mutt - Balancing coverage & performance using high-plex proteomics with SomaScan Assay



**14:32-15:05 Coffee Break**

**15:05-16:10** [Oral Session II \(Chair: Roland Bruderer\)](#)



**15:05-15:15** **Sponsored talk - Olink, Part of Thermo Fisher Scientific**

Lutz Priebe - High-Multiplex Plasma Proteomics Using Proximity Extension Assay Technology for Translational Research

**Oral and Flash presentations - Spatial and clinical proteomics**

- 15:15-15:27 Soltermann Alex (Pathologie Länggasse) - Amyloid typing by combined laser microdissection and mass spectrometry
- 15:27-15:31 Sander Sibilla (University of Fribourg) - Mass Spectrometry Workflows for Quantitative Comparison of Clinical Skin Biopsies and 3D In Vitro Models in Cutaneous Squamous Cell Carcinoma
- 15:31-15:35 Pavlou Maria (EPF Lausanne) - Spatial Proteomics Reveals Tumor and Microenvironmental Programs Driving Early Breast Cancer Invasion in the MIND Model
- 15:35-15:39 Fehr Aaron (ETH Zurich) - Illuminating influenza virus entry using LUX-MS proximity labelling
- 15:39-15:43 Franziscus Curdin Andri (University of Basel) - Compartment-Resolved Proteomics via Expansion Microscopy–Guided Microdissection
- 15:43-15:47 Gatto Gloria (University of Verona) - Deciphering the anticancer mechanism of triphenylphosphonium-conjugated isocyanide in pancreatic cancer cells through quantitative proteomics
- 15:47-15:51 Capossela Simona (Swiss Paraplegic Research) - From biospecimens to reusable proteomics datasets: Olink PEA targeted proteomics within the SwiSCI Biobank
- 15:51-15:55 Bayramoglu Ibrahim (University of Fribourg) - Targeted Proteomic Profiling of Autophagy Dynamics Across the NCI-60 Cancer Cell Line Panel

**15:55-16:05** **Sponsored talk - Seer**



Catherine Gilbert - Unbiased biomarker discovery with the Proteograph Product Suite

**16:05-16:40** **Coffee Break**

**16:40-18:00** [Oral Session III \(Chair: L  ic Dayon\)](#)

**Competition for travel grant awards – special session**

- 16:40-16:50 Chatterjee Lopamudra (University of Zurich) - A High-Throughput Proteomics Platform for Ex Vivo Drug Profiling in Patient-Derived Lymphoma Samples

- 16:50-17:00 Werner Tilman (ETH Zurich) - Proteome-wide Mapping of Protein Binding Interfaces in Human Cells Using FLiP-MS
- 17:00-17:10 Sun Xindong (University of Zurich) - High-Throughput IgE Glycosylation Mapping Across the Allergic Disease Spectrum
- 17:10-17:20 Huber Jasmin (ETH Zurich) - Proteomic profiling of DNA adduct binding proteins to elucidate cellular responses to mutagenic DNA lesions
- 17:20-17:30 Brunner Melanie (University of Fribourg) - GSK3 $\beta$  Regulates Autophagy and Chaperone-Assisted Selective Autophagy Through Direct Phosphorylation of Key Substrates
- 17:30-17:40 Sifis Alexandros Angelos (University of Lausanne) - The tumor antigenic landscape in pleural carcinosis managed by Pressurized Intrathoracic Hyperthermic Aerosol Cisplatin (PITHAC)
- 17:40-17:50 Burger Alexandra E. (University of Bern) - Immunopeptidome and Proteome Responses to SMG-1-Mediated NMD Inhibition in NSCLC
- 17:50-18:00 Gessner Philipp (University of Zurich) - Tape-Strip Proteomics Enables Functional Readouts of Skin Health and Disease Severity in Pediatric Atopic Dermatitis
- 18:20-18:30 Group picture**
- 18:30-19:30 Apéro** (*upon registration only!*) sponsored by 
- 19:30-22:00 Dinner in the conference hotel** (*upon registration only!*)

## PROGRAM - Friday 24<sup>th</sup> April 2026

- 08:00-09:30 Workshop (Organised by the Young Scientist) - "Top-down and Interaction Proteomics"**  
 (Chair: Bayramoglu Ibrahim)  
**Valérie Gabelica** (University of Geneva)  
**Yury Tsybin** (Spectroswiss)  
**Cathy Marulli** (Proxima) - Global profiling of protein complex dynamics with an experimental library of protein interaction markers
- 09:45-10:35 Oral Session IV** (Chair: Leitner Alexander)
- Oral and Flash presentations - Structural MS and MS Technologies**
- 09:45-09:57 Hänseler Walther (University of Zurich) - Detection of alpha-synuclein related structural changes of the proteome in iPSC-derived neurons with Lip-MS
- 09:57-10:01 Florea Roberta (ETH Zurich) - From Cross-links to Structure: Understanding Calmodulin-Mediated Regulation of Connexin 32 Channels using Crosslinking-guided Integrative Modelling

10:01-10:05 Baltazar Jennifer (University of Basel) - Understanding the proteome organization that drives target cell-specific specializations at thalamocortical synapses

10:05-10:09 Baumann Marco (ETH Zurich) - Direct detection of protein communities and non-canonical proteins at the cell surface with cleavable enrichment handles

10:09-10:13 Wei Chuping (Southern University of Science and Technology) - Simple and Highly Efficient One- or Two-step Proteomic Preparation for FF and FFPE Tissues Evaluates Preservation-Dependent Proteome Bias

10:13-10:17 Schär Sandra (Biognosys AG) - Digital Proteome: A comprehensive multi-tissue and multi-species proteome expression atlas supporting target discovery and therapeutic development

10:17-10:21 Palermo Chiara (University of Bern) - Opening Doors to Single-Cell Proteomics with an Easy-to-Implement, Semi-Automated Workflow

10:21-10:25 Buchser Sophie (University of Fribourg) - The tissue-specific proteome of autophagosomes

**10:25-10:35 Sponsored talk - Biognosys Group  
(PreOmics, Biocatres, and Biognosys)**



Monika Pepelnjak - From Challenge to Solution: a competitive library-free DIA workflow for Immunopeptidomics

**10:35-11:10 Coffee Break**

**11:10-12:30 Oral Session V (Chair: Maria Pavlou)**

**Oral and Flash presentations - Data Analysis**

11:10-11:22 Grossmann Jonas (University of Zurich) - Proteomic Plasticity vs. Genetic Adaptation: How Staphylococcus aureus Survives the chemical warfare against Pseudomonas aeruginosa

11:22-11:26 Bernhardt Oliver (Biognosys AG) - Systematic Assessment of Entrapment Strategies for Accurate FDR Validation in DIA Proteomics

11:26-11:30 Cano-Muniz Santiago (BigOmics Analytics) - Harnessing the Power of AI for the Integration and Interpretation of Multi-Omics Data Using a Generalized WGCNA Framework

11:30-11:34 Willemin Mathilde (EPF Lausanne) - From Proteomics to Metaproteomics: Lessons Learned from Profiling Candidatus Accumilibacter in Anaerobic Granular Sludge

11:34-11:38 Peinado Izaguerri Jorge (Biognosys AG) - The Cloud is the limit with Omicsflow

**11:38-11:43** **Sponsored talk (Thermo Fisher Scientific)**  
Guido Sonsmann - The Beauty of Cake Proteomics

**ThermoFisher**  
SCIENTIFIC

**11:45-12:30** **Keynote 2:**  
**Jesper Olsen** (University of Copenhagen, Novo Nordisk Foundation Center for Protein Research, DK) - Single-cell proteomics of protein turnover and abundance

**12:30-12:45** **Awards and closing remarks**

**12:30-12:40** **Best Oral Presentation & Best Flash Talk Prizes**



**12:05-12:45** **Closing remarks – Alex Schmidt** (BioZentrum) & LS<sup>2</sup> Proteomics Board

**12:55-14:30** **Farewell Lunch** (*upon registration only!*)

**14:30-15:30** **LS<sup>2</sup> Proteomics Board Meeting**

**Industry Exhibition:**



**Other Sponsors:**

