

Session Program

Aug 25 - 29, 2025

3rd International Top-Down Proteomics Symposium

Lightning Talks

Lecture Hall D, VMP 6 / Philturm
Von-Melle-Park 6 20146 Hamburg

Wed, August 27

10:30 AM

Lightning Talks

Session | **Location:** Lecture Hall D, VMP 6 / Philturm, Von-Melle-Park 6 20146 Hamburg

10:35 – 10:40 AM

Properties, Origin, and Reproducibility of Truncated Proteoforms Across Top-Down Proteomic Studies

Speaker

Dr Philipp T. Kaulich

10:40 – 10:45 AM

Novel bridged hybrid monolithic columns combined with mass spectrometry for top-down proteomic analysis

Speaker

Dr Yu Liang

10:45 – 10:50 AM

Spatial Phosphoproteomic Profiling of Murine Heart Reveals Region-Specific Functions via TiO₂ Enrichment Optimized for Laser-Capture Microdissected Samples

Speaker

Dan Zhao

10:50 – 10:55 AM

FLASHApp: Interactive Data Analysis and Visualization for Top-Down Proteomics

Speaker

Tom David Müller

10:55 – 11:00 AM

Metabolomics and proteomics reveal the inhibitory effect of *Lactobacillus crispatus* on cervical cancer

Speaker

Lingyan Zhong

11:00 – 11:05 AM

SEC-complex-down approaches with functional O₂-affinity assay: Correlation between the higher order structure of bird hemoglobin homologues and their function.

Speaker

Léa Letissier

11:05 – 11:10 AM

Multi-dimensional High-Throughput Molecular Glue Screening via Gas Phase Affinity Selection Native Mass Spectrometry and Cryo-EM Analysis

Speaker

Amanda Lee

11:10 – 11:15 AM

Legionella effector AnkX puts the brakes on IMPDH2 filaments

Speaker

Marietta Sandkamp-Kaspers

11:15 – 11:20 AM

Top-Down Mass Spectrometry of a Clinical Antibody Light Chain Using the Omnitrap-Orbitrap-Booster Platform**Speaker**

Marie Yammine

11:20 – 11:25 AM

X-ray spectroscopy meets native mass spectrometry: probing gas-phase protein complexes**Speaker**

Dr Jocky Chun Kui Kung

11:25 – 11:30 AM

A prototype TIMS-FT-ICR MS instrument capable of deep characterisation of complex samples and biomolecules**Speaker**

Christopher Wootton

11:30 – 11:35 AM

Pin-pointing phosphorylation-dependent Pin1 binding to a cytoskeletal protein altered in Alzheimer's Disease using structural mass spectrometry**Speaker**

Mr Nikolas Brooks

11:35 – 11:40 AM

Enhancing Drug-Payload Localization in Antibody-Drug Conjugates with a Middle-Down Approach Utilizing Proton Transfer Charge Reduction on an Orbitrap Ascend BioPharma Tribrid Mass Spectrometer**Speaker**

Rachel Grady

11:40 – 11:45 AM

Digital Membrane Chromatography — A New Way to Rapid Antibody Purification for Top-Down MS**Speaker**

Kilian Müller

12:00 PM