

APMRS 2026

Preliminary Scientific Program

16–18 September 2026
University of Graz, Austria

Charting New Frontiers in Proteomics and Metabolomics

Conference program booklet • final version

Wednesday, 16 September 2026

Arrival & Exhibition Setup

12:00–13:00 Registration, coffee/drinks, exhibition build-up, poster hang-up

13:00–13:15 **Welcome**
APMA president: Evelyn Rampler (University of Vienna, Austria)

Session 1 · Subcellular Proteomics & Adaptive Stress Responses

Chairs: Andreas Koeberle (University of Graz, Austria)

Eva Rauch (Medical University of Innsbruck, Austria)

13:15–14:00 **Keynote 1 – Stefanie Wienkoop** (University of Vienna, Austria)
Proteomic and Metabolomic Perspectives on Plant-Microbe Interactions

14:00–14:15 Klára Brožová (Medical University of Vienna, Austria)
Multimodal spatial proteomics reveals inter- and intra-tumoral heterogeneity in breast cancer xenograft models

14:15–14:30 Curtis DeVerinne (University of Cambridge, United Kingdom)
Using LOPIT-DC to Uncover the Spatial Proteome of Serum-Starved, G0/G1-synchronised RPE1 Cells

14:30–14:50 Fabian Frommelt (Cori Institute, Austria)
Architectural Archetypes of SLC Transporter Interactions: A Structural Systems Biology Approach

14:50–15:30 Coffee break & exhibition

Session 2 · Regulatory Proteomics: Chromatin, Organelles & Interaction Mapping

Chairs: Ulrich Stelzl (University of Graz, Austria)

Lukas Friedl (University of Graz, Austria)

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| 15:30–16:15 | Keynote 2 – Tiziana Bonaldi (University of Milano, Italy)
Epi-proteomics to decode chromatin and protein methylation rewiring in cancer therapy resistance (Case studies in triple-negative breast and ovarian cancer) |
| 16:15–16:30 | Anna Cusa (Medical University of Innsbruck / Vienna BioCenter, Austria)
Long-term FFPE storage preserves proteome integrity for Deep Visual Proteomics |
| 16:30–16:45 | Eva Rauch (Medical University of Innsbruck, Austria)
Booster-Assisted Phosphoproteomics Reveals Position-Dependent Lysosomal Signaling |
| 16:45–17:00 | Martina A. Höllwarth (Medical University of Innsbruck, Austria)
BORC as a novel player in lysosomal damage response |
| 17:00–17:15 | Dennis Dannecker (Research Institute of Molecular Pathology, Austria)
Developing a Low-Input Crosslinking Mass Spectrometry Strategy using the timsTOF Ultra 2 |
| 17:15–17:35 | Jonathan St-Germain (Princess Margaret Cancer Centre, Canada)
Leaving Streptavidin Behind – Streptavidin Sepharose Crosslinking with bis(sulfosuccinimidyl)suberate (BS3) improves BioID data |
| 17:35–17:55 | Empowerment Grant –Nara Marella
(Medical University of Vienna, Austria)
An interactive resource for exploring proteome-wide fragment–protein interactions |

Poster Session & Social Gathering

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|--------------------|---|
| 17:55–20:00 | Poster session, exhibition & get together |
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Thursday, 17 September 2026

Session 3 · Glyco-Proteomics, Multi-Omics & Bioprocess Systems

Chairs: Solveigh Koeberle (University of Graz, Austria)

Christina Brenner (University of Vienna, Austria)

09:00–09:45

Keynote 3 – Frédérique Lisacek

(SIB Swiss Institute of Bioinformatics, Switzerland)

A virtual path from glyco- to proteo-mics

09:45–10:00

Dominik Hofreither (TU Wien, Austria)

Multi-Omics Characterization of a NISTCHO Reference Bioprocess:
Central-Carbon and Subunit Assembly Signatures of mAb Quality and
Process Performance

10:00–10:15

Raphael Lindner (University of Innsbruck, Austria)

Evaluating Adverse Effects of Bisphenol A and Substitutes using Multi
Omics Time Course Experiments

10:15–10:35

David M. Hollenstein (Max Perutz Labs, Austria)

Self-Documenting by Design: Continuity in Proteomics Analysis Across
Users and Time

10:35–11:15

Coffee break & exhibition

Session 4 · Transparent Lipidomics & Precision Sampling

Chairs: Jürgen Hartler (University of Graz, Austria)

Leonhard Bereuter (University of Graz, Austria)

11:15–12:00

Keynote 4 – Harald Köfeler (Medical University of Graz, Austria)

Lipidomics: The Past and the Future

12:00–12:15

Helena Kim (University of Vienna, Austria)

Advancing High-Throughput Tissue Sample Preparation:
Microsampling versus Chemical Biopsy Using High-Resolution Mass
Spectrometry

12:15–12:30 Agnieszka Mosińska (Medical University of Gdańsk, Poland)
In Vivo and Ex Vivo SPME Sampling of Cannabidiol Pharmacokinetics
and Profiling of Endocannabinoids in Rat Blood and Brain

12:30–12:50 Lorenz Walzl (Medical University of Innsbruck, Austria)
Toward an Austrian Reference Lipidome Using Dried Blood Spot
Metabolomics

12:50–14:00 Lunch & exhibition

Session 5 · Lipid Metabolism, Stress & Systems Omics

Chairs: Evelyn Rampler (University of Vienna, Austria)

Fengting Su (University of Graz, Austria)

14:00–14:45 **Keynote 5 – Christer Ejsing** (University of Southern Denmark,
Denmark)
Towards Systems-level Profiling of Lipid Metabolic Fates in Health and
Disease

14:45–15:00 Leonhard Bereuter (University of Graz / University of Innsbruck,
Austria)
EMT/ZEB1-regulated redox metabolism as target in therapy-resistant
cancer cells

15:00–15:15 Marco Fortmann (University of Münster, Germany)
Comparative Proteomics of Diverse Cell Death Mechanisms in Hepatic
and Renal Cells

15:15–15:30 Raphael Pflieger (TU Wien, Austria)
Inhibition of Stearoyl-CoA Desaturase 1 restrains Hepatic Stellate Cell
activation and induces oxidative stress

15:30–16:15 Coffee break & exhibition

16:15–16:35 Maya Petek (University of Maribor, Slovenia)
Serum proteome profile distinguishes responders and non-responders
to anti-TNF biologic therapy in inflammatory bowel disease

Community & Social Program	
17:00–18:00	APMA General Assembly
18:00–22:00	Conference Party

Friday, 18 September 2026

Session 6 · Expanding Metabolome Coverage

Chairs: Eva-Maria Pferschy-Wenzig (University of Graz, Austria)

Aila Fakhimahmadi (University of Graz, Austria)

08:30–09:15 **Keynote 6 – Tobias Madl** (Medical University of Graz, Austria)
New Frontiers in NMR Metabolomics at the Crossroads of Chemistry,
Biology, and Medicine

09:15–09:30 Christina Brenner (University of Vienna, Austria)
Orthogonal Ionization in LC–MS: Evaluating the Complementarity of ESI
and DBDI for Untargeted Metabolomics

09:30–09:50 Hansjörg Habisch (Medical University of Graz, Austria)
From single spin to metabolomics to life sciences

09:50–10:10 Robin Poller (YMC Europe GmbH, Germany)
Expanding the LC–MS Toolbox: Chromatographic Strategies Across
Biomolecular Classes

10:10–10:45 Coffee break & exhibition

Session 7 · Metabolic Fate, Flux & Clinical Signatures

Chairs: Tamara Tomin (Vienna University of Technology, Austria)

Martina A. Höllwarth (Medical University of Innsbruck, Austria)

10:45–11:30 **Keynote 7 – Ruth Birner-Grünberger** (TU Wien, Austria)
Redox and Lipid Metabolic Rewiring in Non-Small Cell Lung Cancer

11:30–11:45 Xinyu Wang (Medical University of Graz, Austria)
(Sub)cellular dynamics of arginine and lysine demethylation

11:45–12:05 Eva-Maria Pferschy-Wenzig (University of Graz, Austria)
Assessing the metabolic fate of Citrus depressa extract in the
gastrointestinal tract in vitro

12:05–12:25 **APMA Society Medal – Feng Xian** (University of Vienna, Austria)
Systematic evaluation of PASEF acquisition strategies in complex metaproteomes

Closing & Awards

12:40–12:55 **Wrap-up & Awards**
Best Poster and Presentation Awards & Empowerment Grant

12:55–13:00 **Young Investigator Award – Juan Manuel Sacnun**
(Medical University of Vienna, Austria)
Deep secretome analysis reveals the effects of LiCl on fibroangiogenic remodeling in coculture and mouse models of peritoneal dialysis

13:00–13:05 **Young Investigator Award – Leonida Lamp**
(University of Graz, Austria)
Resolving lipid double-bond positions with routine LC–MS/MS

13:05–13:10 **Young Investigator Award – Marlene Pühringer**
(University of Vienna / TU Wien)
Resolving Lipid Isomers: A New Approach to Double Bond Localization Using RP-LC and EAD-M

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