

SEMM Workshop
“The Proteomics Revolution: Advancing Science and Society”
June 29 – July 1, 2026
Quark Hotel, Milan, Italy

JUNE 29, 2026

- h. 09.00 - 10.00 Registration*
- h. 10.00 - 10.15 **Opening remarks by Tiziana Bonaldi**, *University Statale of Milan and European Institute of Oncology (IEO), Milan, Italy & YPIC&FeMS introduction**
- h. 10.15 – 10.25 **Opening remarks by Pier Giuseppe Pelicci**, *President, Fondazione SEMM ETS, Milan, Italy**

Session 1: PROTEOMICS IN HEALTH AND DISEASES: from Biomarkers to Mechanisms and Therapies
Chair Persons: Sara Zanivan and Roberta Noberini

- h. 10.25 - 10.30 Session Introduction by the chairs*
- h. 10.30 - 11.00 **Jennifer Van Eyk**, *Cedars-Sinai - Los Angeles, United States*
Defining iPSC Proteomes as a Framework for Cardiology and Neurological Disease Modeling*
- h. 11.00 - 11.15 **Giulia Franciosa**, *University of Copenhagen - Copenhagen, Denmark*
The Proteomics and Phosphoproteomics Landscape of Melanoma Under T Cell Attack*
- h. 11.15 - 11.45 **Javier Muñoz Peralta**, *Biobizkaia Health Research Institute, Bilbao, Spain*
Defining the Reference Proteomes for Small Extracellular Vesicles and Non-vesicular Components*
- h. 11.45-12.25 Flash talks**
- h. 12.25 - 13.20 Lunch break*
- h. 13.20 - 13.50 **Tami Geiger**, *Weizmann Institute of Science - Rehovot, Israel*
Multi-Omic Integration in Cancer Biology: Decoding Protein-RNA Variants in Clinical Tumor Analyses*

- h. 13.50 - 14.05 **Clarissa Braccia**, *Ospedale San Raffaele - Milan, Italy*
Proteomic Profiling to Investigate the Effects of HDAC8 Inhibition Combined to the Activation of Sirtuin1 in a Zebrafish Model of Duchenne Muscular Dystrophy
- h. 14.05 - 14.35 **Kelly E. Stecker**, *Utrecht University - Utrecht, The Netherlands*
Mapping Signaling Dynamics at the Tumor–Immune Cell Interface
- h. 14.35 - 14.50 **Gianluca Sigismondo**, *Heidelberg University Hospital and German Cancer Research Center - Heidelberg, Germany*
Advanced Proteomics of Brain Tumors - from Biomarker Discovery to translational Medicine
- h. 14.50 - 15.20 **Matthias Mann**, *Max Planck Institute of Biochemistry - Martinsried, Germany*
Next-Generation Proteomics: Revolutionizing Biomedical Research with Ultra-Sensitive Mass Spectrometry
- h. 15.20 - 16.05 **Sponsors' Talks**
- h. 16.05 - 16.30 Coffee break*

PANEL DISCUSSION: BREAKING BARRIERS: Investing in Proteomics Future

Chair Persons: Marie Chion & Valentina Siino

- h. 16.30 - 16.40 Panel Introduction by the chairs
- h. 16.40 - 16.50 **Jennifer Van Eyk**, *Cedars-Sinai - Los Angeles, United States*
- h. 16.50 - 17.00 **Leander van der Hoeven**, *University of Copenhagen - Copenhagen, Denmark*
- h. 17.00 - 17.10 **Maria Rescigno**, *CeMM, Wien, Austria and Humanitas University, Humanitas Research Hospital, Pieve Emanuele (MI), Italy*
- h. 17.10 - 17.20 **Albert Heck**, *Utrecht University, Utrecht, The Netherlands*
- h. 17.20 - 18.00 Q&A session and open discussion*

Night free

JUNE 30, 2026

h. 08.30 - 09.00 Meet the Speakers (moderated by Marie Chion and Leander van der Hoeven, YPIC)

Session 2: SPATIAL PROTEOMICS: Unlocking Spatial Information of Proteomes and their Dynamics in Cells and Tissues

Chair Persons: Tiziana Bonaldi and Michele Costanzo

h. 09.00 - 09.05 Session Introduction by the chairs

h. 09.05 - 09.35 **Kathryn Lilley**, *University of Cambridge - Cambridge, United Kingdom*
Cell-wide Orchestration by RNA and Protein Relocalization

h. 09.35 - 09.50 **Lucia Santorelli**, *TIGEM - Telethon Institute of Genetics and Medicine - Pozzuoli, Italy*
ER Integrated Linear and Cross-linking Proteomics Resolves ORF Function and PPI Dynamics

h. 09.50 - 10.20 **Fabian Coscia**, *Max Delbrück Center for Molecular Medicine, Berlin, Germany*
Decoding Diseases Through Multiscale Spatial Proteomics

h. 10.20 - 10.35 **Katrin Stuber**, *University of Copenhagen - Copenhagen, Denmark*
Proteomics of Neuroinflammatory Signalling: Illuminating Cellular Mechanisms Driving Neurodegenerative Diseases

h. 10.35 - 11.00 Coffee break

h. 11.00 - 11.30 **Anne-Claude Gingras**, *Lunenfeld-Tanenbaum Research institute - Toronto, Canada*
Mapping Cellular Interactomes: Proximity-Dependent Biotinylation Strategies for System-Wide Protein Network Analysis

h. 11.30 - 11.45 **Daniele Musiani**, *European Institute of Oncology, IEO - Milan, Italy*
Integrated Proteomic and Phosphoproteomic Profiling of FFPE HR+/HER2– Metastatic Breast Cancer Reveals Molecular Heterogeneity Under CDK4/6 Inhibition

h. 11.45 - 13.15 Poster Session

h. 13.15 - 14.15 Lunch break

Session 3: DECODING CELLULAR SIGNALING: Insights from Proteomics

Chair Persons: Chiara Francavilla and Chiara Provasi

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| h. 14.15 - 14.20 | Session introduction by the chairs |
| h. 14.20 - 14.50 | Maria Robles , <i>Ludwig Maximilians Universität - München, Germany</i>
Spatiotemporal Proteomics Mapping of Chromatin-associated Complexes Regulating Tissue-specific Circadian Function |
| h. 14.50 - 15.05 | Enrico Massignani , <i>VIB - Ghent University - Ghent, Belgium</i>
MoDPA: Inferring Modification-Dependent Protein Associations from Mass Spectrometry Data |
| h. 15.05 - 15.35 | Marco Hein , <i>Max Perutz Labs - Wien, Austria</i>
Subcellular Proteome Dynamics: Global Profiling of Organelle Remodeling in Health and Disease |
| h. 15.35 - 15.50 | Valeria Bica , <i>Fondazione Telethon Ets - Rome, Italy</i>
Integration of Immunopeptidomics and Phosphoproteomics: from Kinase Control to Antigen Presentation |
| h. 15.50 - 16.20 | Petra Beli , <i>Institute of Molecular Biology - Mainz, Germany</i>
Regulation of Cellular Stress Responses by Phosphorylation and Ubiquitylation |
| <i>h. 16.20 - 16.45</i> | <i>Coffee break</i> |
| h. 16.45 - 17.00 | Lorenzo Calviello , <i>Fondazione Human Technopole, Milan, Italy</i>
Accelerating Discovery and Integration from RNA to Protein with R2T2P |
| h. 17.00 - 17.30 | Angela Bachi , <i>IFOM ETS The AIRC Institute of Molecular Oncology - Milan, Italy</i>
Proteomics Unveils BACE2 as a Lipid Gatekeeper in Cancer |
| <i>h. 17.30 - 17:40</i> | <i>Biobreak</i> |

PANEL DISCUSSION: EMPOWERING THE NEXT GENERATION: The Future of Proteomics Careers

Chair Persons: Valentina Siino & Leander van der Hoeven

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| h. 17.40 - 17.50 | Panel Introduction by the chairs |
| h. 17.50 - 18.00 | Yue Xuan , <i>Thermo Fisher Scientific - Milan, Italy</i> |
| h. 18.00 - 18.10 | Fabian Coscia , <i>Max Delbrück Center - Berlin, Germany</i> |

- h. 18.10 - 18.20 **Mara Monetti**, *Memorial Sloan Kettering Cancer Center - New York, United States*
- h. 18.20 - 18.30 **Benjamin Garcia**, *Washington University School of Medicine - St. Louis, United States*
- h. 18.30 - 18.40 **Chiara Segre'**, *Umberto Veronesi Foundation - Milan, Italy*
- h. 18.40 - 19.20 *Q&A session and open discussion*
- h. 20.30 Social Dinner**

JULY 1, 2026

- h. 08.30 - 09.00 Meet the Speakers (moderated by Marie Chion, Leander van der Hoeven and Paola Fulghieri)
- h. 09:00 - 09:40 Open Discussion: Biases in (Proteomics) Experimental Design in Basic Science and Medicine**
 Chair Persons: Susanna Chiocca (*IEO, Milan, Italy*) and Marta Lualdi (*Universita' degli Studi dell'Insubria, Busto Arsizio, VA, Italy & ItPA*)
 Michela Matteoli, *Humanitas University, Rozzano (MI), Italy*
 Annamaria Cattaneo, *La Statale University, Milan, Italy*

Session 4: THE PROTEOMICS REVOLUTION: Technological Innovation & Computational Advancements

Chair Persons: Albert Heck and Marie Chion

- h. 09.40 - 09.45 Session introduction by the chairs
- h. 09.45 - 10.15 **Richard Scheltema**, *University of Liverpool - Liverpool, United Kingdom*
 Improving Accuracy in DIA-based Clinical Proteomics Through Benchmarking and Post-Hoc Validation Tools
- h. 10.15 - 10.30 **Marian Kalocsay**, *The University of Texas MD Anderson Cancer Center - Houston, United States*
 Quantitative Proteomics Reveals Tunable Signaling States of the PD-1 Immune Checkpoint Using Programmable Cyclic Peptide Ligands
- h. 10.30 - 11.00 **Olga Vitek** *Khoury College of Computer Sciences, Northeastern University - Boston, United States*
 Open-Source Innovations in Mass Spectrometry Imaging: Cardinal v.3 for Versatile Tissue Analysis

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| h. 11.00 - 11.15 | Louisa Grauvogel , <i>Max Planck Institute of Biochemistry - Planegg, Germany</i>
Building a Pan-viral Interactome Using High-throughput AP-MS |
| <i>h. 11.15 - 11.40</i> | <i>Coffee break</i> |
| h. 11.40 - 12.10 | Lisa Schweizer , <i>OmicVision Biosciences - Copenhagen, Denmark</i>
The Molecular Roadmap of Advanced Pancreatic Cancer: Insights from Spatial Proteomics |
| h. 12.10 - 12.25 | Anna Jarzab , <i>Hirszfeld Institute of Immunology and Experimental Therapy - Poli, Poland</i>
Bacterial Meltome Atlas as a Tool for Assessing the Impact of Febrile Temperatures on Bacterial Proteins Denaturation |
| h. 12.25 - 12.55 | Benjamin Garcia , <i>Washington University School of Medicine - St. Louis, United States</i>
Quantitative Proteomics for Understanding Epigenetics Mechanism |
| h. 12.55 – 13.05 | Closing Remarks by Albert Heck |
| h. 13.05 - 13:20 | Prizes and Awards |
| h. 13.20 - 13.30 | Final Remarks by Sara Zanivan & Tiziana Bonaldi and lunch package |