

CelebrateMS

Celebrating 50 Years of Mass Spectrometry Research at the University of Southern Denmark

Advances in Biological Mass Spectrometry

Program

DAY 1 - Tuesday, December 3, 2024

08:30-09:30 Registration and coffee

09:30 Welcome and introduction, Ole N. Jensen & Adelina Rogowska-Wrzesinska

Session 1 Chair: Martin R. Larsen

10:00 **Ruedi Aebersold**, ETH Zürich, Switzerland

Navigating the proteomic landscape with a mass spectrometer.

10:40 **Amanda Campbell**, Odense Univ. Hospital, Univ. of Southern Denmark

A carrier-based quantitative proteomics method applied to biomarker discovery in pericardial fluid.

10:55 **Luke Gamon**, Univ. Copenhagen

Spatial proteomics of the human atherosclerotic microenvironment.

11:10 **Ileana Cristea**, Princeton Univ. USA

The Virus Microenvironment.

11:50 Group Photo

12:00 Lunch, poster session, exhibition

Session 2 Chair: Thomas J.D. Jørgensen

13:30 **Neil Kelleher**, Northwestern Univ., USA

The case for levelling up compositional, spatial and single-cell biology.

14:10 **Cagla Sahin**, Univ. of Southern Denmark

Native and ion mobility MS of intrinsically disordered proteins and their complexes.

14:25 Refreshments, poster session, exhibition

Session 3 Chairs: Christer Stenby Ejsing

15:00 **Andrea Sinz**, Univ. Halle-Wittenberg, Germany

Cross-Linking Mass Spectrometry for Investigating Protein Conformations and Protein-Protein Interactions - A Method for All Seasons

15:40 **Anton Berg Hansen**, Univ. Copenhagen

Development of a thiol-ene microfluidic chip for sub-zero temperature hydrogen/deuterium exchange mass spectrometry (HDX-MS)

15:55 **Helle Bogetofte-Barnkob**, Univ. of Southern Denmark

Pathways to Parkinson's Disease: using Proteomics/PTMomics to understand disease development in patient iPSC-derived neurons

16:10 **Morten Thaysen-Andersen**, Macquarie Univ, Australia

MS unlocks the glycode of the tumour microenvironment

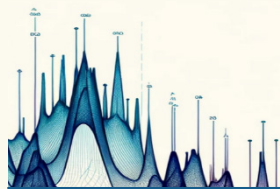
16:50 Closing remarks, End of Day 1

17:15 Transport to Odense City/Odeon by tram

ODEON, Odeons Kvarter 1, 5000 Odense C

18:00-18:30 **Symposium reception**

18:30-01:00 **Symposium Dinner and Party**



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DAY 2 - Wednesday, December 4, 2024

Session 4 Chair: Adelina Rogowska-Wrzesinska

09:00 **Judith Steen**, Harvard Med. School, USA
Unraveling the Mysteries of Misfolded Proteins by Mass spectrometry

09:40 **Markku Varjosalo**, Univ. Helsinki, Finland
A proteocistromic atlas of human transcription factors

09:55 Coffee/Tea, posters, exhibition

Session 5 Chair: Finn Kirpekar

10:25 **Klaus Dreisewerd**, Univ. Münster, Germany
Almost Forty - A fruitful Münster-Odense MALDI connection

11:05 **Sudip Ghosh**, Lund University, Sweden
Delineation of antigen presentation modulation for tailored treatments of infant leukemia

11:20 **Perdita Barran**, Univ. Manchester, UK
Adventures with Mass Spectrometry and Joy - Towards Development of a Quantitative MRM assay using Sebum to Diagnose Parkinson's Disease

12:00 Lunch, poster session, exhibition

Awards Chairs: Nils J. Færgeman & Cagla Sahin

12:45 Poster awards

Session 6 Chair: Veit Schwämmle

12:55 **Lennart Martens**, Univ. Ghent, Belgium
A recipe for novel discoveries: thousands of pinches of protein, with a spoonful of silicon

13:35 **Ulises Guzman**, Univ. Copenhagen
Proteome-wide measurement of peptide Collisional Cross-Sections in an Orbitrap Mass Analyzer without using ion mobility separations

13:50 **Philip Kaulich**, Univ. Kiel, Germany
Truncated Proteoforms in Top-Down Proteomics Studies

14:05 **Bernhard Küster**, Techn. Univ. München, Germany
ProteomeTools, Understanding Cancer and Repurposing Drugs
- All by Mass Spectrometry!

14:45 Closing remarks
Ole N. Jensen & Adelina Rogowska-Wrzesinska

15:00 End of conference

15:00-18:00 Tour of MS labs, networking, refreshments

18:00 End of Day 2