

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Proteomics and its Application to Translational and Precision Medicine (D3)

April 7-11, 2019 • Clarion Hotel Sign • Stockholm, Sweden

Scientific Organizers: Matthias Mann, Emma K. Lundberg, Albert J.R. Heck and Mathias Uhlén

Organized in collaboration with Knut and Alice Wallenberg Foundation
and Science for Life Laboratory

Abstract & Scholarship Deadline: December 12, 2018 / Abstract Deadline: January 9, 2019 / Discounted Registration Deadline: February 6, 2019

SUNDAY, APRIL 7

Arrival and Registration

MONDAY, APRIL 8

Welcome and Keynote Address

Speaker to be Announced

In Depth Proteomics of Normal and Diseased Tissues

Joshua J. Coon, University of Wisconsin, USA
Comprehensive Tissue Proteomics

Angus I. Lamond, University of Dundee, UK
Multi-Dimensional Proteome Maps of the Cell

Emma K. Lundberg, SciLifeLab Stockholm and School of Biotechnology, KTH, Sweden
Single Cell Variability of the Human Proteome

Short Talk(s) Chosen from Abstracts

Poster Session 1

Large-Scale Study of Signaling Pathways

Giulio Superti-Furga, Research Center for Molecular Medicine of the Austrian Academy of Sciences, Austria
Large Scale Signaling Proteomics

Jesper V. Olsen, University of Copenhagen, Denmark
Defining Critical Switches in Cancer Progression by Phospho-Proteomics

Bernhard Küster, Technische Universität München, Germany
The Target and Mechanism of Action Landscape of Clinical Kinase Drugs

Short Talk Chosen from Abstracts

TUESDAY, APRIL 9

Chemical Proteomics and Drug Discovery

Benjamin F. Cravatt III, The Scripps Research Institute, USA
Activity Probes in Drug Discovery

Yasushi Ishihama, Kyoto University, Japan
Toolbox for Phosphoproteomics in Cancer Signaling

Michael B. Yaffe, Massachusetts Institute of Technology, USA
Proteomics and Cell Signaling

Marcus Bantscheff, GlaxoSmithKline, Germany
Proteomics for Drug Target Discovery

Short Talk(s) Chosen from Abstracts

Complexes and Networks

Albert J.R. Heck, Utrecht University, Netherlands
Native Mass Protein Assemblies investigated by Native and Top-down Mass Spectrometry

Anne-Claude Gingras, Lunenfeld-Tanenbaum Research Institute, Canada
A Proteomics View of mTOR Signaling in Humans

Ileana M. Cristea, Princeton University, USA
Understanding the Complexity of Viral Infection using Proteomics

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, APRIL 10

Cancer and Other Diseases

Tamar Geiger, Tel Aviv University, Israel
Breast Cancer Classification and Functional Analysis by Proteomics

Marie Classon, , USA
Epigenetics/Resistant Cancer

Speaker to be Announced

Nevan J. Krogan, University of California, San Francisco, USA
Using Network Biology to Interpret Cancer Genomic Data

Short Talk(s) Chosen from Abstracts

Neurodegenerative and Immunological Diseases

Judith A. Steen, Boston Children's Hospital, Harvard Medical Center, USA

Neurodegeneration Studied by (Phospho) Proteomics

Vishva M. Dixit, Genentech, Inc., USA
Immunology and Proteomics

Paola Picotti, ETH Zürich, Switzerland
Probing Protein Structural Changes on a Proteome-Wide Scale

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, APRIL 11

Biomarkers and Patient Stratification

Rudolf H. Aebersold, Institute of Molecular Systems Biology, ETH Zürich, Switzerland

The Proteome in Context

N. Leigh Anderson, Plasma Proteome Institute, USA
Biomarker Changes in Time: High-Precision Measurement of Protein Panels in Longitudinal Dried Blood Spots

Andy Hoofnagle, University of Washington, USA
Clinical Proteomics for Biomarker Discovery

Matthias Mann, Max Planck Institute of Biochemistry, Germany
Plasma Proteomics Profiling as a Universal Phenotyping Approach in Humans

Short Talk(s) Chosen from Abstracts

Workshop: Precision Medicine from Proteomics

Short Talks Chosen from Abstracts

Integrative Omics for Prevention and Personalized Treatment

Mathias Uhlén, Royal Institute of Technology, Sweden
SCAPIS Wellness Study

Michael P. Snyder, Stanford University School of Medicine, USA
Precision Medicine Using Various Omics Approaches

Speaker to be Announced

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

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FRIDAY, APRIL 12

Departure