

PROGRAM | MONDAY DECEMBER 2

08:30 - 09:00 Registration & coffee

09:00 - 09:15 Welcome by Kris Gevaert

Plenary session 1: Aula

ANALYTICAL AND CLINICAL PROTEOMICS

Chair: Kris Gevaert

- 09:15 - 09:50 Spatial Organization of the Transcriptome and Proteome
Kathryn Lilley, *University of Cambridge, UK*
- 09:50 - 10:15 Expanding Proteomics from the Single Molecule Level: Highly Sensitive, Massively Parallel Protein Sequencing
Talli Somekh, *CEO & Co-founder, Erisyon, US*
- 10:15 - 10:50 PRISM: Massively Parallel Protein Analysis *In Situ* by Hyperspectral Imaging
Andrew Emili, *Boston University School of Medicine, US*
- 10:50 - 11:20 Coffee break
- 11:20 - 11:45 Olink: A precision proteomics solution for targeted human protein biomarker discovery
Niklas Nordberg, *Senior Scientist, Olink Proteomics, SE*
- 11:45 - 12:20 Robust and sensitive proteomics workflow for clinical applications
Matthias Mann, *Max Planck Institute of Biochemistry, DE*

SHORT TALKS SELECTED FROM ABSTRACTS - PART I

Chair: Kris Gevaert

- 12:20 - 12:35 A cDNA display mediated novel immuno-PCR method (cD-IPCR)
Chathuni Jayathilake, *Graduate School of Science and Engineering, Saitama University, JP*
- 12:35 - 12:50 Continuous biomarker monitoring by particle mobility sensing with single-molecule resolution
Junhong Yan, *Eindhoven University of Technology, NL*
- 12:50 - 13:45 Lunch
- 13:45 - 14:30 Poster session 1

Parallel session 1: Aula

BIOSENSING & MOLECULAR DIAGNOSTICS

Chair: Jeroen Lammertyn

- 14:30 - 15:05** Fiber optic-SPR biosensor technology for simple and rapid diagnostic assays
Karen Vanhoorelbeke, *KU Leuven, BE*
- 15:05 - 15:30** A Novel IR Technology For Your Biotherapeutic Analytical Tool Box
Microfluidic Modulation Spectroscopy
Jeffrey Zonderman, *CCO, RedShift Bioanalytics, US*
- 15:30 - 16:05** Antibody Microarrays and Nanoarrays for the Analysis of Proteins and Extracellular Vesicles
David Juncker, *McGill University & Genome Quebec Innovation Centre, CA*
- 16:05 - 16:30** Re-engineering the Sandwich Immunoassay for High-Content, High-Throughput Proteomics
Milad Dagher, *Co-founder and CEO, nplex biosciences, CA*
- 16:30 - 16:35** Interrogating native proteins with the Cyclic IMS
Perry Derwig, *Sales specialist high resolution products, Waters, NL*
- 16:35 - 17:05** Coffee break

Plenary Closing Session Day 1: Aula

- 17:05 - 17:40** Making proteomics add up – the challenge of adding hard numbers to proteomes
Rob Beynon, *University of Liverpool, UK*
- 17:40 - 18:15** Molecular tools for affinity-based protein analyses
Ulf Landegren, *Uppsala University, SE*

Parallel session 2: Academieraadzaal

RECOMBINANT ANTIBODY TOOLS

Chair: Gholamreza Hassanzadeh

- 14:30 - 15:05** High throughput phenotypic screening for functional antibodies using droplet-microfluidics
Christoph Merten, *European Molecular Biology Laboratory, Genome Biology Unit, Heidelberg, DE*
- 15:05 - 15:30** Radiolabeled single-domain antibodies for targeted radiotherapy of HER2-positive cancer
Nick Devoogdt, *Co-founder and Scientific Advisor, Camel-IDS, BE*
- 15:30 - 16:05** Antibody discovery and engineering by deep learning
Sai Reddy, *ETH Zurich, CH*
- 16:05 - 16:30** Targeted antibody discovery using Directed Phospho Antibody-clonotype (DPAC)
Michael Weiner, *V.P. Molecular Sciences Abcam, US*
- 16:30 - 16:35** New Recombinant Antibody Tag Technology "The Fast & The Flexible"
Paul Royle, *Technical Sales Specialist Custom Antibodies, Bio-Rad AbD Serotec GmbH, DE*
- 16:35 - 17:05** Coffee break

- 18:15 - 19:15** Network reception (Included in your registration fee)
- 19:00 - 20:00** Guided walk + Conference dinner @Volta (Optional)

08:30 - 09:00 Welcome coffee

Plenary session 3: Aula

SINGLE CELL & SINGLE PROTEIN ANALYSIS

Chair: Han Remaut

- 09:00 - 09:35** Protein Fingerprinting Using Single-Molecule Fluorescence
Chirlmin Joo, *Kavli Institute of Nanoscience Delft, NL*
- 09:35 - 10:00** Oxford Nanopore: Single-Molecule Protein Detection on Arrayed Nanopore Devices
Andrew Heron, *Director of Advanced Research, Oxford Nanopore Technologies Ltd, UK*
- 10:00 - 10:35** Revisiting the Structure-Function Relationship with Mass Photometry
Philipp Kukura, *University of Oxford, UK*
- 10:35 - 11:05** Coffee break
- 11:05 - 11:30** Single Cell ProteoGenomics: From Research to Clinical Analysis
Andreas Schmidt, *CEO, Proteoma, US*
- 11:30 - 12:05** Novel strategies in single cell and single molecule screening
Joshua B. Edel, *Imperial College London, UK*

SHORT TALKS SELECTED FROM ABSTRACTS - PART 2

Chair: Han Remaut

- 12:05 - 12:20** Nanopore single-molecule protein identification
Xiaohua Huang, *University of California, San Diego, US*
- 12:20 - 12:35** Identification of RNF213 as intracellular ISG15 receptor with antimicrobial activity
Fabien Thery, *VIB-UGent Center for Medical Biotechnology, BE*
- 12:35 - 13:20** Lunch
- 13:20 - 14:05** Poster session

Parallel session 3: Academieraadzaal

INTERACTOMICS

Chair: Michiel Bontinck

- 14:05 - 14:40** Mapping the cell-surface proteome underlying hippocampal mossy fiber synapse identity
Joris de Wit, *VIB-KU Leuven Center for Brain & Disease Research, BE*
- 14:40 - 15:05** Precision Mapping of Protein-Protein Interactions with Next Generation Sequencing Technology
Bernhard Suter, *CEO, Next Interactions, US*
- 15:05 - 15:40** Terra incognita of protein-small molecule interactome
Aleksandra Skirycz, *Max Planck Institute of Molecular Plant Physiology, DE*
- 15:40 - 16:05** NPOT®, a cutting-edge functional interactomics solution for drug-target identification and elucidation of drug's mode of action.
Rachel Amouroux, *Head of Research, Inoviem Scientific, FR*
- 16:05 - 16:10** Let's discover the alternative to ELISA and HPLC
Helge Schnerr, *Marketing Manager EMEA, DE*
- 16:10 - 16:40** Coffee break

Plenary Closing Session Day 2: Aula

- 16:40 - 17:15** Bioluminescent immunoassays in solution: no washing, less waiting
Maarten Merkx, *Eindhoven University of Technology, NL*
- 17:15 - 17:50** The *in silico* Human Surfaceome & Technologies for the Elucidation of the Surfaceome Nanoscale Organization
Bernd Wollscheid, *ETH Zürich, CH*

Parallel session 4: Aula

POST TRANSLATIONAL MODIFICATIONS

Chair: Francis Impens

- 14:05 - 14:40** Global views of degradation by proteasome profiling
Yifat Merbl, *Weizmann Institute of Science, IL*
- 14:40 - 15:05** Ultrasensitive protein detection using ZooMAb® high affinity reagents and SMC™ digital counting technologies
Sarah Baines, *SMC Product Specialist, Western Europe, Merck, UK*
- 15:05 - 15:40** Histidine phosphorylation; a new dimension in the phosphoproteome
Simone Lemeer, *University Utrecht, NL*
- 15:40 - 16:15** The *in vivo* ISGylome links ISG15 to metabolic pathways and autophagy upon Listeria infection.
Lilliana Radoshevich, *University of Iowa Health Care, US*
- 16:15 - 16:20** Quantification and Characterization of Bispecific Antibodies (and Ab Fragments?) on the LabChip® GX II Touch™ Microfluidics System
Jelle Caers, *Application Specialist Microfluidics, PerkinElmer, BE*
- 16:20 - 16:40** Coffee break

- 17:50 - 18:00** Closing