



BePAc24



DAY 1 December 5th 2024

08h30-09h00 Registration and morning coffee

09h00-09h15 Welcome

09h00-10h45 **Immunopeptidomics** chair Francis Impens

09h15-10h00 **Maria Wahle**

Decoding the Soluble Immunopeptidome in Alpha-1 Antitrypsin Deficiency

10h00-10h15 **Sponsored talk: Bruker**

4D-Proteomics™ Innovation: Meeting Research Challenges Head-on

10h15-10h30 **Laura Van Moortel**

Next-generation immunopeptidomics for bacterial epitope discovery

10h30-10h45 **Charlotte Adams**

Fragment Ion Intensity Prediction Boosts Immunopeptide Identification in timsTOF Mass Spectrometry

10h45-11h15 Coffee break

11h15-12h45 **Single cell proteomics** chair Gabriel Mazzucchelli

11h15-12h00 **Simon Davis**

Mapping Tumour Complexity using Single-Cell and Spatial Proteomics

12h00-12h15 **Sponsored talk: Thermo**

Maximizing Low Sample Load Coverage with 100 and 200 nL/min Elution using 50cm long Mesoporous Pillar Array Columns

12h15-12h30 **Matthieu Hodeige**

Linking spatial to functional proteomics on heterogeneous samples: The “pixel-by-pixel” shotgun proteomic approach

12h30-12h45 **Laurent Gatto**

How to analyse single-cell proteomics data

12h45-12h47 YPIC introduction

12h47-13h15 Lunch

13h15-14h00 Poster session I (even numbers)

14h00-15h30 **Clinical proteomics** chair Kris Gevaert

14h00-14h45 **Julia Chamot-Rooke**

Case Studies of Proteoforms in Human Health and Disease

14h45-15h00 **Sponsored talk: Waters**

LC-MS/MS shows raised maternal plasma levels of GDF15 in pregnancy is produced almost entirely by the fetus

15h00-15h15 **Evans Mudibo**

Systemic biological mechanisms underpin poor post-discharge growth among severely wasted children with HIV

15h15-15h30 **Laure Simoens**

Illuminating the small proteome of Salmonella

15h30-16h00 Coffee break

16h00-16h45 **Bryan Gonzales**

Proteomics without Borders: understanding the pathophysiology of childhood severe malnutrition

16h45-17h00 Poster prize day 1 & wrap up

18h30 Dinner at “Pakhuis”



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DAY 2 December 6th 2024

08h30-09h00 Morning coffee

09h00-09h15 Welcome

09h00-10h45 **Unconventional proteomics** chair Maarten D'haenens

09h15-10h00 **Noemi Procopio**

Unconventional Proteomics: Where Proteins can be Used in Criminal Investigations

10h00-10h15 **Sponsored talk: Sciex**

Enhancing precision with ZT Scan DIA

10h15-10h30 **Ian Engels**

ClassiCOL: LC-MS/MS analysis for ancient species Classification via Collagen peptide ambiguation

10h30-10h45 **Mohamed Amine Berkal**

Optimisation of Sample Preparation for Analysing Cystic Fibrosis Biomarkers in Sweat using LC-TIMS-TOF

10h45-11h15 Coffee break

11h15-12h45 **Computational proteomics - I** chair Simon Devos

11h15-12h00 **Eduard Sabidó**

Quality control in mass spectrometry-based proteomics

12h00-12h15 **Sponsored talk: Preomics**

Improve biomarker discovery: Enrichment-based workflows for plasma, serum and CSF allow rapid, in-depth analysis of large cohorts of samples

12h15-12h30 **Christophe Vanderaa**

msqrob2SCP: a flexible workflow for addressing the hierarchical correlation in SCP data

12h30-13h15 Lunch

13h15-14h00 Poster session II (odd numbers)

14h00-15h30 **Computational proteomics - II** chair Ralf Gabriels

14h00-14h15 **Antonino Zito**

Missing values (MVs) reduce the completeness of biological datasets and discovery power

14h15-14h30 **Robbe Devreese**

IM2Deep predicts collisional cross-sections of modified and multiconformational peptide ions

14h30-14h45 **Caroline Jachmann**

ProteoBench: a community-curated platform for comparison of proteomics data analysis workflows

14h45-15h30 Coffee break

15h30-16h15 **Magnus Palmblad**

AI in Mass Spectrometry and Proteomics: Fascinating Past, Exciting Present and Promising Future

16h15-16h30 Poster prize day 2 & wrap up