

Joint BSPR/EBI Conference 2009
Multiscale proteomics: from cells to organisms
Wellcome Trust Conference Centre, Cambridge, UK, 14th – 16th July 2009

Tuesday 14th July 2009

08:30-10:00 Registration / Poster Setup / Coffee

09:45-10:00 Welcome on behalf of BSPR (Walter Kolch, President, BSPR)
Welcome on behalf of EBI (Henning Hermjakob, EMBL-EBI)

Keynote Lecture 1
Chaired by Walter Kolch

10:00-10:45 Matthias Mann (MPI Munich, Germany)
Towards identification of nearly all fragmented peptides in proteomics

10:45-11:15 Tea / Trade Exhibition

Session 1: Single Cell Proteomics
Chaired by Andy Pitt

11:15-11:45 David Klug (Imperial College, London, UK)
The development of novel tools and technologies for Single Cell Proteomics

11:45-12:15 Andrew de Mello (Imperial College, London, UK)
Next Generation Microfluidic Tools for High Efficiency Cellular Analysis

12:15-12:45 Mauricio Barahona (Imperial College, London, UK)

12:45-14:00 Buffet Lunch / Trade Exhibition

Poster Session I

14:00-15:00 Authors of even-numbered posters in attendance

Session 2: Analysis of Proteins & Multi-protein complexes
Chaired by Steve Pennington

15:00-15:30 Andrew Pitt (University of Glasgow, UK)
Protein interaction arrays: joining the dots for protein interactions

15:30-16:00 Carol Robinson (University of Cambridge, UK)

Providing a Functional Link Between Proteomics and
Quaternary Structure Dynamics

- 16:00-16:30 Anne-Claude Gavin (EMBL, Heidelberg, Germany)
Biochemical approaches to biomolecular networks
- 16:30-17:00 Mike Washburn (Stowers Institute for Medical Research, USA)
Quantitative Proteomic Analysis of RNA Polymerase II and The
Discovery of a Novel Ser-5 CTD Phosphatase
- 17:00-17:30 Tea / Trade Exhibition

Session 3: Subcellular proteomics
Chaired by Judit Nagy

- 17:30-18:00 Kathryn Lilley (University of Cambridge, UK)
Mapping organelle proteomes using stable isotope labelling
- 18:00-18:30 Johan Malmström (ETH Zurich, Switzerland)
Molecular anatomies in subcellular proteomics
- 18:30-19:45 Drinks Reception / Trade Exhibition
- 19:45 Dinner (Residential delegates only)

Wednesday 15th July 2009

Keynote Lecture 2

- 09:00-09:45 Mike Tyers (Samuel Lunenfeld Research Institute, Toronto,
Canada & University of Edinburgh, UK)
Systematic analysis of the budding yeast kinome interaction
network

Session 4: Systems Biology of Protein Networks
Chaired by Henning Hermjakob

- 09:45-10:15 Rune Linding (The Institute of Cancer Research, ICR, UK)
Molecular Logic Gates and Network Medicine
- 10:15-10:45 Juri Rappsilber (University of Edinburgh, UK)
The Protein Composition of Mitotic Chromosomes Determined
Using Multidimensional Quantitative Proteomics
- 10:45-11:30 Tea / Trade Exhibition
- 10:45-11:15 BSPR Annual General Meeting (James Watson Pavilion)

Session 5: Proteomics Tools for Discovery

Chaired by Neil Kitteringham

- 11:30-12:00 Neil Kelleher (University of Illinois, USA)
Unifying Top Down and Bottom Up Mass Spectrometry to
Handle the Complexity of the Human Proteome
- 12:00-12:30 Judit Nagy (Imperial College, London, UK)
Quality assessment and validation of 2D-E results using multi-
pixel detection
- 12:30-13:00 Jasna Peter-Katalinic (University of Muenster, Germany)
Toward high throughput/high accuracy methods for assessment
of glycosylation microheterogeneity
- 13:00-14:00 Buffet Lunch / Trade Exhibition

Poster Session II

- 14:00-15:00 Authors of odd-numbered posters in attendance

Session 6: Early Stage Career Investigator Presentations
Chaired by Rainer Cramer

- 15:00-16:30 Early Stage Investigator award
Six 15 minute presentations selected from submitted abstracts
- 15.00-15.15 Martin Barrios-Llerena, Proteomic Investigation of Leishmania
containing phagosomes
- 15.15-15.30 C. J. Seneviratne, Shotgun Proteomics elucidates the regulatory
pathway of Candida biofilms
- 15.30-15.45 Jenny Fischer, Capture Compound Mass Spectrometry (CCMS)
unravels the Molecular Mechanisms of Liver Toxicity of two
Parkinson Drugs
- 15.45-16.00 Johanna Rees, Cataloguing the Drosophila melanogaster
interactome by parallel affinity capture (iPAC) and MS analysis
of protein complexes.
- 16:00-16:15 Alex von Kriegsheim, Cell fate decisions specified by the
dynamic ERK interactome
- 16:15-16:30 Adam Byron, Proteomic analysis of integrin adhesion complexes
identifies RCC2 as a dual regulator of Rac1 and Arf6
- 16:30-17:00 Tea / Trade Exhibition

Session 7: Tissue Proteomics
Chaired by Kathryn Lilley

- 17:00-17:30 Sasha Baginsky (ETH Zurich, Switzerland)
Functional proteomics: A cornerstone in Plant Systems Biology
- 17:30-18:00 Mike Dunn (University College Dublin, Ireland)
Heart failure and the cardiac hydrophobic sub-proteome

18:00-19:45 Drinks Reception / Trade Exhibition
(Sponsored by Thermo Fisher)

19:45 Conference Dinner
(By ticket only)

Thursday 16th July 2009

Session 8: Biomarkers
Chaired by Mike Dunn

09:00-09:30 Roz Banks (University of Leeds, UK)
Biomarkers and renal cancer - a pipeline under construction?

09:30-10:00 Hendrik Neubert (Pfizer Global R&D, UK)
Targeted Quantitation of Low Abundance Protein Biomarkers
Using Immunoaffinity Enrichment and LC-MS/MS

10:00-10:30 Rainer Cramer (University of Reading, UK)
A Tale of Two Approaches – Investigating Biomarkers for Ovarian
Cancer Detection

10:30-11:15 Tea / Trade Exhibition

Session 9: Whole organisms/ Model organisms
Chaired by Rainer Cramer

11:15-11:45 Mike MacCoss (University of Washington, Seattle, UK)
Complementary Proteomics Strategies to Understanding *C. elegans*' Genome

11:45-12:15 Julian Dow (University of Glasgow, UK)
Transcriptomes, proteomes and tissues in *Drosophila*

12:15-12:45 Jeroen Krijgsveld (EMBL, Heidelberg, Germany)
Quantitative phospho-proteomics of stem cell differentiation

12:45-13:15 Dieter Oesterhelt (MPI Munich, Germany)
Systems Biology of Halophilic Archaea

13:15-14:15 Buffet Lunch / Trade Exhibition

Closing Session

14:15-14:25 **Prize Awards**
Presentation of Poster Prize

Presentation of Early Stage Investigator Award (*Sponsored by Sigma-Aldrich*)
Announcement of MJ Dunn Fellows and BSPR Fellowships

Keynote Lecture 3

- 14:25-15:10 Gary Siuzdak,
Mass-Based Metabolomics of Biofluids and Tissues
- 15:10-15:15 Closing remarks: Walter Kolch (BSPR)
- 15:30 Buses depart to Stansted / Cambridge