



ProteomeBinders Workshop / DGMS-Fachgruppe Affinity-MS
December 13 – 15, 2009 - University of Konstanz

Bioaffinity- Mass Spectrometry in Life Science and Biomedical Analysis

Programme

Sunday, 13th December, 2009

K 503 (IBZ II)

16:00 **Registration**

17:30 **Welcome & Introduction**
M. Przybylski

17:45 **Opening lecture**

Marius Üffing, Helmholtz- Zentrum München
**Affinity-based approaches to target protein networks on a
quantitative scale**

18:45 **Welcome buffet & poster session**

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Programme - continued

Monday, 14th December, 2009

K 503 (IBZ II)

Session A: New developments and methods of affinity-MS in proteomics

Chair: M.O. Glocker

- 09:00 **Friedrich Herberg, University of Kassel**
Development and application of low molecular weight binders for chemical proteomics
- 09:45 **Markus Bantscheff, Cellzome AG, Heidelberg**
Chemical proteomics for characterisation of small molecule kinase inhibitors
- 10:30 **Iuliana Susnea, University of Konstanz**
Immuno- proteomics in the identification of *Chlamydia pneumoniae* antigens
- 11:00 Coffee Break
- 11:30 **Oliver Pötz, Thomas Joos, NMI Reutlingen**
TXP - a generic immunoaffinity based strategy for protein analysis
- 12:15 **Corina Flangea, Alina Zamfir, INCDEMC Timisoara/RO**
New glycosylaminoglycan domanins revealed by mass spectrometry methods based on chip-nano-ESI
- 13:00 **Discussion**
- 13:15 Lunch

Session B: Biochemical and biomedical applications

Chair: F. Herberg

- 14:30 **Keith Compson, Waters SA, Manchester/UK**
New developments of high-performance ion mobility mass spectrometry – The Synapt G2
- 15:15 **Michael Przybylski, University of Konstanz**
Affinity-MS and ion-mobility- MS in studies of „misfolding / aggregating” proteins in neurodegeneration
- 16:00 Coffee Break



Bioaffinity- Mass Spectrometry in Life Science and Biomedical Analysis

Programme - continued

Session B: Biochemical and biomedical applications - continued

- 16:30 **Ulrich Pecks, RWTH Aachen**
Preeclampsia: The current clinical situation and novel affinity-based developments for improved diagnosis
- 17.15 **Michael O. Glocker, Proteome Center Rostock**
Next generation autoimmune disease diagnostics - Mass spectrometric and peptide chip epitope analysis of autoantigens
- 18:00 **Poster session & Refreshments**
- 20:00 **Speakers Dinner (Restaurant Elephanten, Konstanz)**

Tuesday, 15th December, 2009

K 503 (IBZ II)

Session C: Perspectives for affinity- MS and –proteomics

Chair: M. Przybylski

- 09:00 **Serge Muyldermans, Vrije University Brüssel/BE**
Fast generation of high-affinity single domain antibody fragments
- 09:45 **Marcus Macht, Bruker Daltonik, Bremen**
Characterisation of monoclonal immunoglobulins by affinity-MS: Strategies & tools
- 10:30 **Adrian Moise, University of Konstanz**
Affinity-MS approaches for identifying protein-carbohydrate interaction epitopes
- 11:00 **Coffee Break**
- 11:30 **Ilse Dohnal, Karl Mechtler, Institute of Mol. Pathology, Wien/AU**
Rapid isolation of Yeast proteins for phosphorylation site analysis
- 12:15 **Mike Taussig, Babraham Institute, Cambridge/UK**
Generation and application of protein microarrays
- 13:00 **Final discussion / End of workshop**

