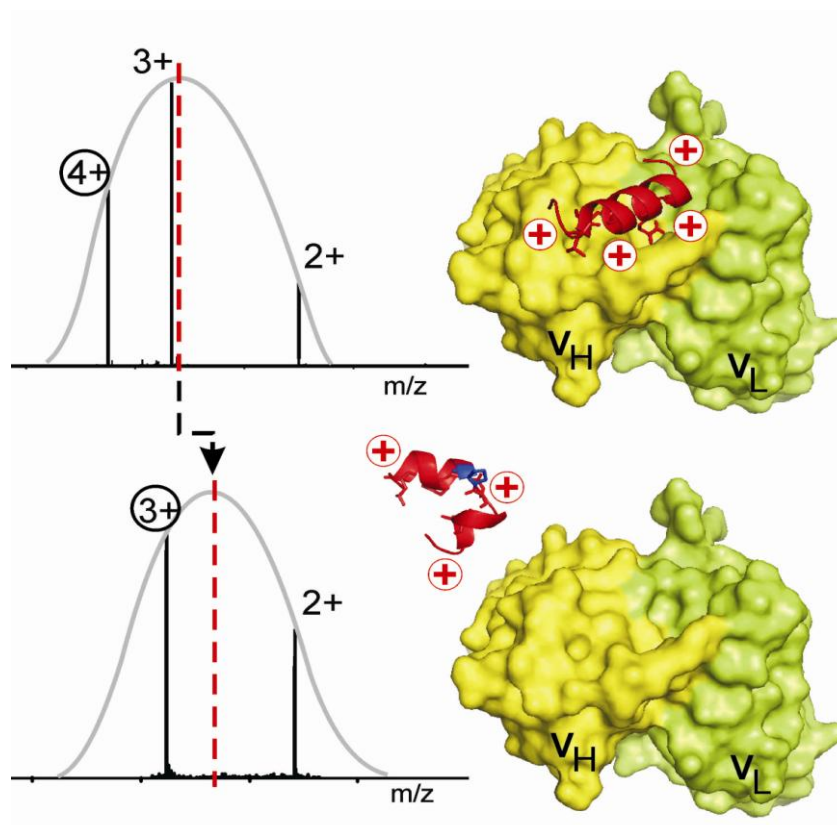


Structured Curriculum for MD and PhD students
University Medicine Rostock
Participants' Camp SS 2014

and the

DGMS- Fachgruppe
Affinitäts- Massenspektrometrie
(Affinity-MS - Special Interest Group Workshop)



4th - 6th of May, 2014

Agenda

of the **Participants´ Camp SS 2014** and the
Affinity-MS Special Interest Group Workshop

Affinity – MS

meets

Regenerative Medicine

Sunday, 4th of May 2014

- I. Welcome and Key-note lecture**
Chair: **M.O. Glocker**
- 18:00 – 18:15 **M.O. Glocker**, Rostock
Welcome and meeting overview
- 18:15 – 19:00 **F. Sobott**, Antwerpen
Sizing and shaping up proteins: The use of ion mobility and native MS for conformational studies
- 19:30 – 21:30 Speakers´ Dinner

Agenda

of the **Participants´ Camp SS 2014** and the **Affinity-MS Special Interest Group Workshop**

Monday, 5th of May 2014

II. Protein Structure and Protein-Protein Interactions I

Chair: F. Sobott

- 9:00 – 9:20 **K.F.M. Opuni**, Rostock
Characterization of Epitope Peptides by Ion-Mobility Mass Spectrometry
- 9:20 – 9:40 **Y, Yefremova**, Rostock
Bioanalytic and mass spectrometric characterization of “protein G’+”
- 9:40 – 10:00 **M. Al-Majdoub**, Rostock
Characterization of protein G conformations and the influence of indole propionic acid (IPA) by hydrogen / deuterium exchange analysis
- 10:00 – 11:00 Break

III. Affinity-MS and Antibody Design

Chair: F. Sobott

- 11:00 – 11:45 **M. Przybylski**, Konstanz
Uncovering molecular details of protein "misfolding - aggregation" using affinity- and ion mobility- mass spectrometry - Physiological and “Parkinson”- Synucleins
- 11:45 – 12:30 **A. Frenzel**, Braunschweig
Designing high specific antibodies
- 12:30 – 14:00 Lunch

Agenda

of the **Participants´ Camp SS 2014** and the **Affinity-MS Special Interest Group Workshop**

Monday, 5th of May 2014

- continued -

IV. Stem cell biology

Chair: M.O. Glocker

- 14:00 – 14:20 **A. Schade**, Rostock
Non-Viral Gene Carriers for Efficient Modifications of Human Mesenchymal Stem Cells for Cardiac Regeneration
- 14:20 – 14:40 **P. Müller**, Rostock
Non-viral Re-programming of hMSCs into Cardiomyocytes
- 14:40 – 15:00 **N. Voronina**, Rostock
Genetic Modification for Stimulation of Angiogenesis in Ischemic Conditions using Magnetic Nanoparticle-based Delivery of Micro-RNA
- 15:00 – 15:30 **F. Hausburg**, Rostock
Reprogramming of somatic cells into cardiomyocytes
- 15:30 – 16:30 Break

V. Protein Structure and Protein-Protein Interactions II

Chair: M. Przybylski

- 16:30 – 16:50 **J. Yang**, Rostock
ESI Mass Spectrometric analysis of Human Plasma / Serum Proteins upon Bead-based Affinity Extraction
- 16:50 – 17:35 **M. Schulze / S. Giegold**, Berlin
Perfinity iDP, a new platform for protein analysis and fast on-line trypsin digestion followed by detection of the digested peptides by LC-MS
- 19:00 – 21:00 Dinner

Agenda

of the **Participants' Camp SS 2014** and the **Affinity-MS Special Interest Group Workshop**

Tuesday, 6th of May 2014

VI. Protein Structure and Protein-Protein Interactions III

Chair: M. Przybylski

- 9:00 – 9:40 **F. Zehender**, München
Some like it hot – Biomolecule analytics using microscale thermophoresis
- 9:40 – 10:00 **A. Moise**, Konstanz
Affinity- MS approaches for identification of galactose and chaperone binding sites in human alpha-galactosidase A
- 10:00 – 10:20 **M. Iurascu**, Konstanz
Investigations of a mixed disulfide epitope of spondyloarthritides related HLA-B2 by proteolytic excision mass spectrometry
- 10:20 – 11:00 Break

VII. Clinical Research

Chair: M.O. Glocker, Rostock

- 11:00 – 11:20 **M. Hoffmann**, Rostock
Disease-Mediated Phagocyte Recruitment
- 11:20 – 11:40 **G. Mukherjee**, Rostock
Quantitative protein expression analysis of urinary bladder cancer samples using nanoUPLC-ESI-IMS-MS^E
- 11:40 – 12:20 **S. Maeser**, Konstanz – conclusion lecture
The diagnosis of lysosomal storage disorders - From invasive methods to mass spectrometry
- 12:20 – 14:00 Lunch

