

## **Workshop Bioaffinity- Mass Spectrometry in Life Science and Biomedical Analysis**

### **Organisers**

Michael Przybylski (University of Konstanz) and Michael O. Glocker (Proteome Center Rostock) on behalf of the German Mass Spectrometry Society / Fachgruppe Affinity-Mass Spectrometry

### **Schedule**

Monday, 31<sup>st</sup> August 2009, 18:00, Kaisen lecture room (Kaisen Saal)

### **Number of participants**

No limit

### **Description**

Mass spectrometry has been established as a key tool in proteomics, and in the identification of epitopes recognized by antibodies of polypeptides and protein antigens, that are crucial as lead structures for vaccine development. However, the combination of mass spectrometry and bioaffinity methods has been hitherto explored and developed only to an initial extent. In this workshop recent developments of *Bioaffinity- mass spectrometry* will be presented and discussed for structure identification and bioaffinity quantification in antigenic determinant identification, affinity- proteomics, interaction mapping using chemical crosslinking, biopolymer interaction studies by online bioaffinity-mass spectrometry; and applications to biomedical and clinical studies. Brief theme presentations by scientists from different laboratories will be given, followed by a general discussion of methods, problems, perspectives of bioaffinity- mass spectrometry.

### **Programme**

18:00 – 19:30

#### **Theme Presentations**

<b>Michael Przybylski</b> , University of Konstanz	Online bioaffinity-MS for biopolymer interaction studies
<b>Ken Tomer</b> , NIEHS Research Triangle Park	Antigenic determinant identification
<b>Christoph Borchers</b> , University of Victoria	Immuno- MS in proteomics applications
<b>Mathias Müller</b> , Martin-Luther University Halle	Protein-interaction mapping using Photoreactive amino acids
<b>Leesa Deterding</b> , NIEHS Research Triangle Park	Antibody analysis in autoimmune diseases
<b>Michael O. Glocker</b> , Proteome Centre Rostock	Affinity-MS for individualized medicine

19:30

#### **Open discussion - methods – problems - perspectives**

### **Fee**

There will be no fee for IMSC participants.