Fachgruppe Affinity – Mass Spectrometry International Workshop

MSLife:
High Performance Mass Spectrometry: Integrating new Tools & Methods with Applications in Life Sciences

26th - 28th August 2013
University of Konstanz

New tools in Bioaffinity- mass spectrometry
Therapeutic proteins & antibodies
MS approaches in protein interaction analysis
Clinical diagnostics of lysosomal proteins
Ion mobility-MS & new hyphenated methods

Practical courses:

Online-Biosensor- MS in Proteomics and Immunoanalysis
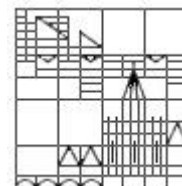*Clinical diagnostics of Lysosomal Storage Diseases*

Speakers:

Christoph Borchers, Victoria
Michael O. Glocker, Rostock
Serge Muyldermans, Brussels
Albert Sickmann, Dortmund
Silva Hecimovic, Zagreb
Stefan Maeser, Rostock
Thomas Braulke, Hamburg
Marilena Manea, Konstanz

www.affinityms.de

Fachgruppe Affinity – Mass Spectrometry
International Workshop

MSLife - High Performance Mass Spectrometry: Integrating new Tools & Methods with Applications in Life Sciences

August 26th-28th, 2013, University of Konstanz

Dear colleagues,

The 7th Int. Workshop of the Fachgruppe "Affinity- Mass Spectrometry", together with the EU Programme: "MSLife - Integrating High Performance Mass Spectrometry with Applications in Life Science", will be held on

August 26th - 28th , 2013

at the University of Konstanz.

Please find attached the preliminary programme of the Workshop, and the registration form. If not yet done, registrations should be sent quickly to the email address given below. The main themes of the workshop will be devoted to new tools and developments of high performance mass spectrometry and bioaffinity-mass spectrometry. New applications and perspectives in Life sciences will be discussed by international participants. In particular, new approaches in biopolymer interactions, ion mobility- MS and applications to clinical diagnostics are in focus. Moreover, the workshop offers two practical courses

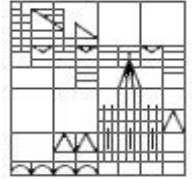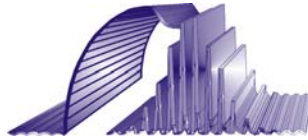"Online SAW- Bioaffinity- Mass Spectrometry" and

"MS-MRM Approaches to Clinical Diagnostics of Lysosomal Storage Diseases"

Please send all registrations to adrian.2.moise@uni-konstanz.de . Inquiries and information about accommodations should be directed to Stefan.slamnoiu@uni-konstanz.de.
The final programme will be available in the next days on the website of the workshop: www.uni-konstanz.de/agprzybylski/chemie, and on the website of the Fachgruppe Affinity-Mass Spectrometry.

We look forward to welcome you in Konstanz!

Michael Przybylski, Konstanz
Michael Glocker, Rostock
Stefan Maeser, Freiburg/Rostock

"High Performance Mass Spectrometry:
Integrating new Tools & Methods with Applications in Life Sciences"

26th - 28th August, 2013

Hörsaal/Lecture Rooms A 704/L829

Programme

<u>Monday, 26th August 2013</u>   A 704

14:00	**Registration & Welcome**

15:30   **M. Przybylski,** University of Konstanz, Konstanz, Germany
               M. Glocker, Proteome Center Rostock, Rostock, Germany

               Opening & Welcome

MSLIFE I: High performance mass spectrometry in proteomics and protein structure analysis
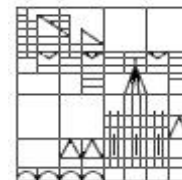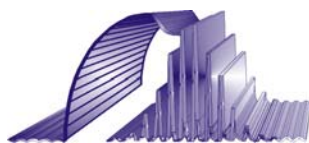(Chair: M. Przybylski)

16:00   **A. Sickmann**, ISAS- Institut für Analytische Wissenschaften, Dortmund, Germany
               „From Proteomes to Protein Interaction"

16:40   **N. J. Thompson**, Utrecht University, Utrecht, Netherlands
               „High Resolution Native Mass Spectrometry applied to Intact Antibody Characterization"

17:20   **O. Scheibner,** Thermofisher Scientific, Bremen, Germany
               Measurement of Intact Proteins in Native State with a modified Exactive Plus Orbitrap MS

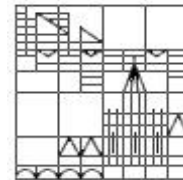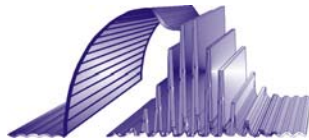18:00   **Welcome & Get-together/   Poster viewing**

MS LIFE II: New Developments in Affinity- Proteomics and Hybrid-MS Tools
(Chair: A. Sickmann)

09:00   **C. Borchers**, University of Victoria, Victoria, Canada
               "Structural Characterization of Biosimilars by Hydrogen/Deuterium
               Exchange combined with Top-Down FTICR-MS Analysis

09:40   **S. Muyldermans,** Vrije Universiteit**,** Brussels, Belgium
               "Nanobodies: Minimal Size, High Affinity, High Specificity Reagents

10:20   **K. Lindner,** University of Konstanz, Konstanz, Germany
               „Key role for the tripeptide sequence VVT (70-72) in α-Synuclein
               and its oligomerisation process revealed by pulsed H/DX-MS and
               IM-MS"

11:00   *Coffee break*

11:30   **A. Petre,** A.I. Cuza Universiy of Iasi, Iasi, Romania
               "Protein Nitration Analysis using Affinity- Mass Spectrometry"

12:10   **M. Glocker,** Proteome Center Rostock, Rostock, Germany
               "Affinity Mass Spectrometry of Human Transcription Repressors"

12:50   *Lunch Break*

MSLIFE III : New biomedical applications (Chair: C. Borchers)

14:00   **K. Compson**, Waters Ltd., Manchester, UK
               Targeted and Untargeted approaches for the analysis of Lipid
               Metabolites by Mass Spectrometry

14:40   **S. Hecimovic**, Rudjer Boskovic Institute, Zagreb, Croatia
               "The Role of APP in Cholesterol Metabolism: A link between Niemann-
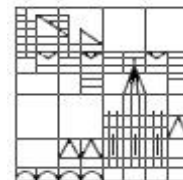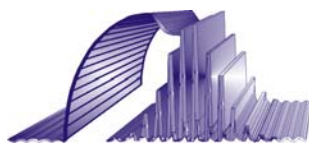   Pick type C Disease and Alzheimer's Disease"

15:20   **U. auf dem Keller**, ETH Zürich, Zürich, Switzerland
„Time-resolved substrate degradomics in complex proteomes"

16:00   *Coffee Break*

(Chair: M. Glocker)
16.30   **M. Manea,** University of Konstanz, Konstanz, Germany
"Aß- Autoantibodies in Alzheimers' Diagnostics and
Immunotherapy"

17:10   **G. Schlosser**, Eotvos Lorand University, Budapest, Hungary
"Mass spectrometric Identification of Citrullination Sites in Fibrin"

17:50   **S. Slamnoiu,** University of Konstanz, Konstanz, Germany
"Online Bioaffinity Mass Spectrometry: Development and Bioanalytical
Applications"
(Introduction of Practical Programme)

18.30   *Concluding Discussion*

20:00   *Workshop Dinner (Restaurant Hohenegg)*

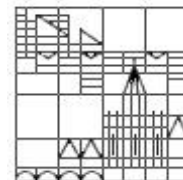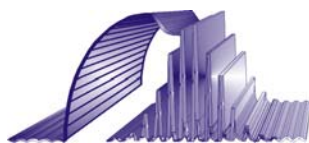Wednesday, 28th August 2013

      MSLIFE IV: New Applications to Metabolic Diseases & Clinical Diagnostics
(Chair: M. Przybylski)

09:00   **S. Maeser**, Centogene AG, Freiburg-Rostock, Germany
"Genetic and Biochemical Approaches to Diagnostics of Lysosomal
Storage Diseases"

09:40   **E. Sözmen,** Ege University Medical Faculty, Izmir, Turkey
"Clinical and Laboratory Practice in Lysosomal Storage Disease
Diagnosis"

10.10	**T. Braulke,** Universitätsklinikum Eppendorf, Hamburg "Biogenesis and Dysfunction of Lysosomes"
10.50	*Coffee Break*
11.20	(Chair: S. Maeser) **A. Zamfir**, Aurel Vlaicu University of Arad, Romania **"**Tandem- Mass Spectrometry Approaches to Diagnostics of Lysosomal Storage Diseases"
11:50	**C. Cozma**, University of Konstanz, Konstanz, Germany "New Substrates for Simultaneous Mass Spectrometric and Fluorimetric Diagnostics of Lysosomal Storage Diseases" *(Introduction of Practical Programme)*
12:20	**S. Maeser/M. Przybylski** Concluding Remarks & Final Discussion
12:30	*Lunch Break*

13:45	**Practical Courses** **Introduction: M. Przybylski/M. Glocker**	L 829
13:45 – 16:00	*Practical I:*	L 846
	"Online-SAW- Bioaffinity- MS in Proteomics and Immunoanalysis" (S. Slamnoiu/A. Moise)	
16:00 – 18:30	*Practical II*:	L 846/ 844
	"Mass Spectrometric Diagnostics of Lysosomal Storage Diseases" (C. Cozma/M. Iurascu)	

Speakers are kindly asked to set a minimum of 5 min aside of their presentation time for discussion, and to preferably bring their presentation on a USB disk drive. Please inform Adrian Moise (Adrian.2.moise@uni-konstanz.de) in case special presentation formats are needed.

General information

Venue

The workshop will be held at the University of Konstanz. All lectures on 26th -28th August 2013 will be in Building A, lecture room A 704.

Practicals on Wednesday, 28th August 2013, will start in Room L 829 (Building L) and will be held in L 846 / L 844 (Building L).

Accomodation

Since Konstanz is a major tourist attraction, accommodation limitations are always possible, therefore we recommend booking in advance. For extensive information on accommodation in Konstanz please visit: www.konstanztourismus.de

Major hotels located downtown in walking distance from the train station are listed below.

Hotel Arcadia Halm
Bahnhofplatz 6
78462 KN
Tel. 07531 - 1210
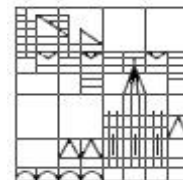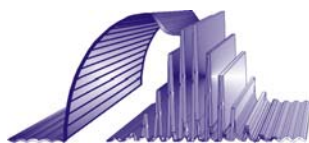info@hotel-halm-konstanz.de
www.hotel-halm-konstanz.de

Viva Sky Hotel
Sigismundstr. 19, 78462 KN
Tel. 07531 - 692362 - 0
welcome@hotel-viva-sky.de
www.hotel-viva-sky.de

Hotel Bayrischer Hof
Rosgartenstr. 30
78462 KN
Tel. 07531 - 1304-0
info@bayrischer-hof-konstanz.de
www.bayrischer-hof-konstanz.de

Gästehaus Centro
Bahnhofstr. 4
78462 Konstanz
07531 - 457 181 8
info@gaestehauscentro.de
www.gaestehauscentro.de

City Hotel
Bahnhofstr. 10
78462 KN
Tel. 07531 - 1331-0
info@city-hotel-konstanz.de
www.city-hotel-konstanz.de

Jugendherberge Otto-Moericke-Turm
Zur Allmannshöhe 16, 78464 Konstanz
Tel: 07531 32260
info@jugendherberge-konstanz.de
http://konstanz.jugendherberge-bw.de/

Parking
There are four parking lots at the University Campus area which can be recognized by the given signs.

Transportation
You can reach the University with bus lines 9A and 9B from the main train station Konstanz. From Wollmatingen you can use the bus line 11 to get to the University, and from Litzelstetten and Dingeldorf the bus line 4 is available, with the bus stop "Egg" convenient to reach the University.

Wardrobe
On level B4 you can find a supervised wardrobe. However, we recommend you not to leave any valued articles unattended.

Speaker's PC
In the lecture hall A704 a laptop will be available for presentations. We ask you to preferably bring your PowerPoint presentation on an USB flash drive.
There will be "eduroam" WLAN coverage available in the lecture hall A 704.

Conference office/Registration
The meeting desk will be located adjacent to Lecture Hall A 704, and will be open starting from Monday, 26th August 2013, 14:00

Registration
The registration form can be found together with the announcement on the websites:
www.affinity-ms.de and www.uni-konstanz.de/agprzybylski/chemie

Please send your registration to adrian.2.moise@uni-konstanz.de.