

Hochschule **RheinMain**

International Workshop

“Affinity - Mass spectrometry – New Methods for Biochemical and Clinical Applications”

November 2 – 3rd, 2017 Hochschule RheinMain, Rüsselsheim am Main

Programme

Thursday, 2nd November 2017

Hochschule Rhein Main L9

09:30 – 10.30 **Registration & Welcome Coffee**

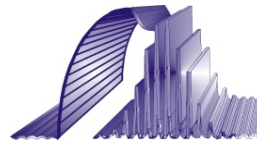
10:30 **Welcome & Opening Addresses**

Michael Glocker, DGMS- Fachgruppe Affinity- Mass Spectrometry;
Director, Proteome Center, Medical University Rostock

Martin Schipper, Stadt Rüsselsheim am Main, Welcome

Wolfgang Kleinekofort, Dean, FB Engineering Sciences, Hochschule
Rhein- Main, Rüsselsheim

Michael Przybylski, Director
Steinbeiszentrum Biopolymer Analysis & Biomedical Mass Spectrometry,
Rüsselsheim am Main



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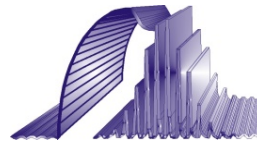
Session 1: **New Mass Spectrometry Tools in Proteomics and Biochemistry**
(Chair: Michael Przybylski)

- 10:45 **Katja Schmitz**, TU Darmstadt, Department of Biochemistry
Chemokine-binding receptor peptides and peptide mimetics
- 11:15 **Anna Tramarin**, University of Bologna, Department of Pharmacy &
Biotechnology, Bologna/Italy:
RAGE in Diabetes Mellitus: An SPR Approach for AGE-RAGE Interaction
- 11:45 **Bogdan Bernevic**, Bundesanstalt für Materialprüfung, Berlin:
Purification of Ceruloplasmin using an Immunoaffinity Method in
Combination with Mass Spectrometry
- 12:15 **Francesca Rinaldi**, University of Pavia, Department of Drug Sciences,
Pavia/Italy:
Innovative Analytical Methodologies for the Development of New
Antituberculosis Agents

12:45 *Lunch*

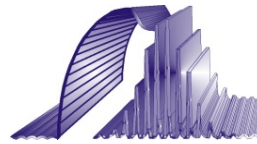
Session 2: **Metabolic Diseases and Affinity- Mass Spectrometry**
(Chair and Brief Introduction: Stefan Maeser)

- 14:00 **Julia Hennermann**, University Medical Center Mainz
Development of New Treatment for Rare Diseases as illustrated by the
Example of Lysosomal Storage Disorders
- 14:45 **Laura Ion**, Department of Chemistry, A.I. Cuza University of
Iasi/Romania:
Clinical Diagnostics of Lysosomal Storage Disorders by Fluorimetry and
MRM-Mass spectrometry



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- 15:15 **Yannick Baschung**, Steinbeis Centre for Biopolymer Analysis & Biomedical Mass Spectrometry, Rüsselsheim:
Characterization of Chaperone Binding Sites to Lysosomal Enzymes by Affinity- Mass Spectrometry
- 15:45 *Coffee Break*
- 16:15 **Rüdiger Schulze**, Ultragenyx GmbH, Berlin:
Mucopolysaccharidosis Type VII: Pathophysiology and treatment
- 16:45 **Stefan Maeser**, Steinbeis Centre Steinbeis Centre for Biopolymer Analysis & Biomedical Mass Spectrometry, Rüsselsheim
New Approaches for Reversal of Immunogenicity in Enzyme Therapy of Lysosomal Disorders by Antibody Epitope Analysis
- 17:15 **Astrid Alef**, IL- Biosystems GmbH, Königswinter:
A new Proteolysis System for Proteome Analysis
- 17:45 **Poster session & Exhibitions (s. separate list):**
M. Przybylski: Brief Introduction of Poster Presentations
- 19:30 **Departure to Workshop Dinner**
20:00 **Workshop Dinner: Restaurant "Opelvillen"**



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Friday, 3rd November 2017

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Session 3: New Applications of Mass Spectrometry in Proteomics
(Chair: W. Kleinekofort)

09:00 **Martina Schnölzer**, Deutsches Krebsforschungszentrum Heidelberg
Comprehensive Proteomic Investigation of Cellular Effects induced by
XRay and Particle Irradiation

09:30 **Cornelia Koy**, Proteome Center Rostock, University Medicine Rostock
Characterization of Protein Complexes by Electrospray Mass
Spectrometry – How ESI-MS Spray Parameters Affect Ion Yields and
Charge Structures of Proteins

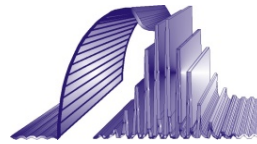
10:00 **Nina Morgner**, Goethe University, Frankfurt/Main:
LILBID, a Soft Ionization Method for Mass Spectrometry

10:30 **Stefan Slamnoiu**, Bruker Daltonik, Bremen:
Intact Proteoform Profiling on an LC/MS timescale

11:00 *Coffee break*

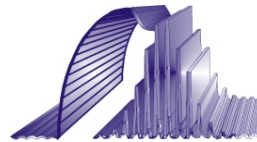
**Session 4: Affinity- Mass Spectrometry: Clinical Applications & Metabolic
Diseases**
(Chair: M. Glocker)

11:30 **Christoph Borchers**, University of Victoria, Canada
ImmunoMALDI (iMALDI) for Precise Quantitation of the Expression and
Phosphorylation Level of Cancer- Related Proteins in Clinical Specimen”



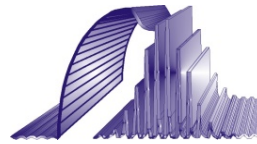
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- 12:15 **Hendrik Rusche**, Steinbeis Centre for Biopolymer Analysis & Biomedical Mass Spectrometry, Rüsselsheim/Germany:
Epitope Analysis of Adalimumab from Patient Autoantibodies
- 12.45 **Brindusa-Alina Petre**, Department of Chemistry & IRO Transcend, Iasi/Romania:
Structure Identification of Pathophysiological Epitopes using Immunoaffinity Mass Spectrometry
- 13:15 *Lunch*
- 14:30 **Session 5:**
Affinity- Mass Spectrometry Tools for Molecular Epitope Analysis
(Chair: Martina Schnölzer)
- Michael Przybylski**, Steinbeis Centre for Biopolymer Analysis & Biomedical Mass Spectrometry, Rüsselsheim/Germany:
Identification and Affinity Determination of Antibody Epitopes by online Biosensor- Mass Spectrometry
- 15:15 **Andrei Neamtu**, IRO Transcend , Iasi/Romania
In Silico Epitope Mapping Using Replica Exchange Molecular Dynamics (REMD) Simulation
- 15.45 **Bright Danquah**, Proteome Center Rostock, University Medicine Rostock
Intact Transition Epitope Mapping – Thermodynamic Weak Force Observation (ITEM- TWO)
- 16:15 *Coffee Break*
- 16.45 **Wei Zhu**, Affinite GmbH, Idstein/ Montreal
A benchtop SPR device for rapid biomolecular interactions



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- 17:15 **Michael Glocker**, Proteome Center Rostock, University Medicine
Rostock
Immuno- Analytical Tumor Diagnostics - Crème de la Crème or Catch
as Catch can?
- 18:00 **Concluding Discussion & Farewell**
- 18:30- Possibility to Visit the Steinbeis- Centre Biopolymer Analysis,
Rüsselsheim, Marktstraße 29.



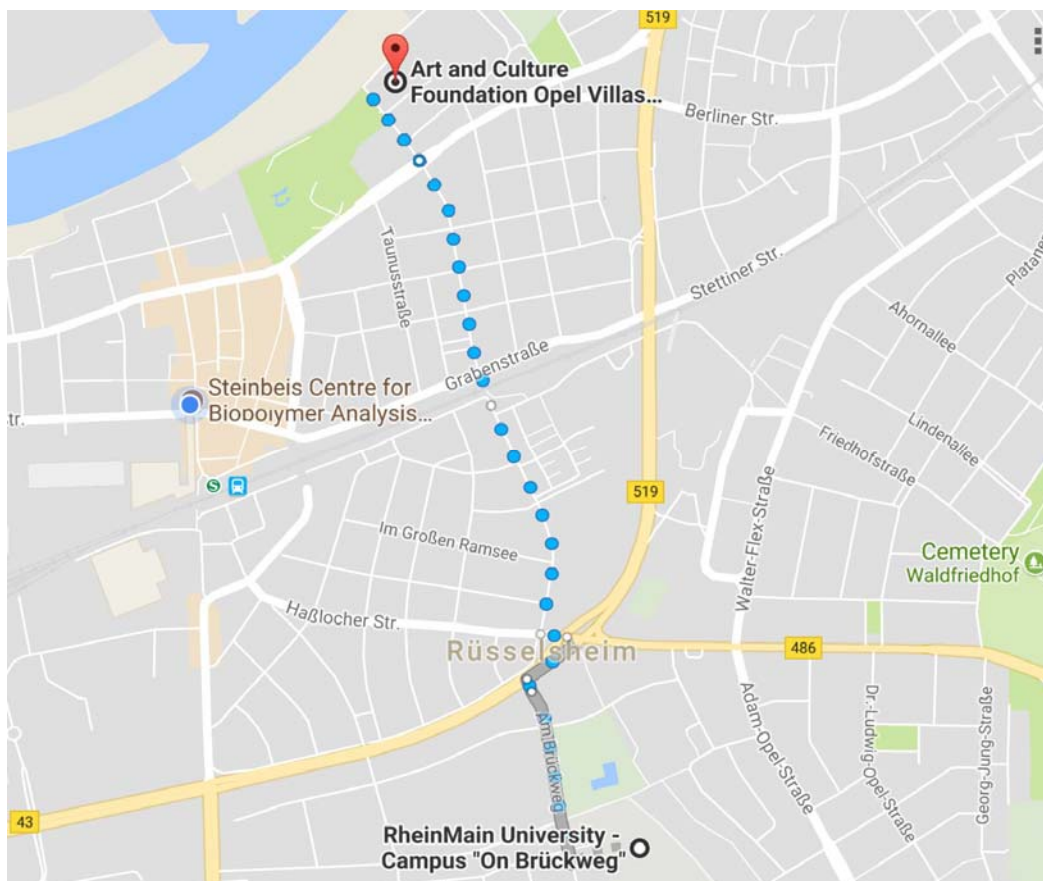
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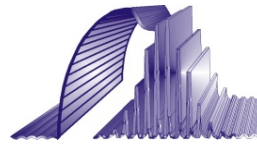
Workshop Dinner on Thursday, Nov. 2

The Workshop dinner will take place on Thursday, Nov. 2nd, 20.00 pm, in the Restaurant “Opelvillen”, Rüsselsheim, Ludwig-Dörfler Allee 9.

The Restaurant is in ca. 15 min walking distance from the Hochschule Rhein-Main;
Please follow the map below:

Leave the Hochschule to the right and stay on “Am Brückweg” until the Rugbyring, then turn right until the intersection. Turn left at the traffic lights and cross the street two times. Immediately turn right and stay on Königstädter Straße. Take the stairs to stay on Königstädter Straße, and continue onto Ludwig-Dörfler-Allee. Coworkers of the Steinbeis Centre will accompany you to the Restaurant.

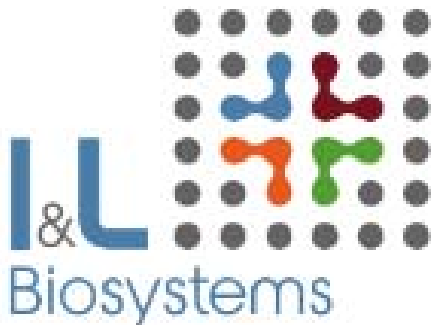




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We are grateful to the following sponsors for supporting the Workshop:

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