

Saturday, November 28th (continued)

- 12.00 **In the quest for novel antivirals: From HIV-1 to HTLV-1 protease inhibitors**
Wiebke Diederich, Marburg
- 12.35 **Pharmacological Inhibition of Cathepsin A is Cardioprotective in Myocardial Infarction-Induced Heart Failure**
Oliver Schiling, Freiburg
- 13.05 **Lunch**
- Chair: **Bernd Engels**
- 14.00 **Novel Cathepsin B Inhibitors with Inversely Oriented Warheads**
Michael Gütschow, Bonn
- 14.35 **Production of bioactive substances: New reactor systems for the cultivation of cyano bacteria**
Dorina Strieth, Kaiserslautern
- 14.55 **Vinylsulfone-based inhibitors of rhodesain**
Sascha Jung, Mainz
- 15.20 **Ovastacin - fertility regulated by a cortical granule protease**
Hagen Westphal, Mainz
- 16.20 **Concluding remarks & end of meeting**
Tanja Schirmeister / Walter Stöcker / Roland Stauber



Geb. 102, Hörsaal der HNO Klinik (H)

Universitätsmedizin
der Johannes Gutenberg-Universität Mainz,
Langenbeckstr. 1, 55131 Mainz

Auf unserer Homepage www.unimedizin-mainz.de finden Sie Anfahrtsskizzen sowie mögliche Busverbindungen.



November 27 & 28, 2015

ChemBioMed V - Molecular Switches in Disease & Development

**Symposium 2015
Program**

Unser Wissen für Ihre Gesundheit

November 27 & 28, 2015

ChemBioMed V - Molecular Switches in Disease & Development

Dear colleagues,

proteases play critical roles in numerous physiological and pathological conditions, including inflammation, viral infections, blood clotting disorders, neurological diseases, and cancer. Therefore, proteases are not only of academic and clinical interest, but also important drug targets for the pharmaceutical industry.

In this respect, natural products have been a source for important drugs for many years. Albeit their chemical complexity poses significant challenges regarding synthesis, it is this complexity, which also confers unique biological properties. To more successfully exploit this reservoir in the future interdisciplinary collaborations are needed.

Consequently, we invited a number of excellent speakers who will present lectures covering innovative targets, assay development and screening technologies and new compounds with activity in pre-clinical models or early clinical trials. The meeting addresses researchers from different scientific areas - medicine, chemistry, pharmacology, biology, chemoinformatics - sharing an interest in the interdisciplinary field of protease research and "Chemical BioMedicine".

We hope that as in our past symposiums, we will be able to bridge the gap between basic research and clinical application.

We are very happy to invite you to join us in Mainz for our transdisciplinary symposium.

With best regards,
Tanja Schirmeister, Roland Stauber, Walter Stöcker

Friday, November 27th

12.00 **Welcome-Lunch**

13.20 **Introduction**
Roland Stauber, Mainz

Chair: Tanja Schirmeister

13.30 **TAILS Proteomics of a MALT1 Immunodeficient Patient Reveals New Substrates in LUBAC to Regulate Linear Ubiquitination**
Christopher Overall, Vancouver

14.15 **Case studies in Covalent Docking and Virtual Screening using "Docktite"**
Boris Schmidt, Darmstadt

14.50 **The search for ligand sensing cores: Using secondary structure element information in drug design**
Oliver Koch, Dortmund

15.25 **Coffee Break**

Chair: Christopher Overall

16.15 **ADAM17 in the Regulation of Inflammation and Cancer**
Stephan Rose-John, Kiel

16.50 **Should I stay or should I go: Proton transfer revisited**
Paul Czodrowsky, Merck

17.25 **ADAM8, a metalloprotease-disintegrin, as a versatile regulator of cellular invasion in inflammatory and neoplastic diseases**
Jörg Bartsch, Marburg

18.45 **Science & Beer (Eisgrubbräu)**

Saturday, November 28th

Chair: Walter Stöcker

09.20 **Targeting the Immunoproteasome by Bioactive Peptides**
Michael Groll, München

09.55 **Covalent and non-covalent inhibitors of flaviviral proteases with affinity in nanomolar range**
Christian Klein, Heidelberg

10.30 **Distinct legumain activities: mechanism of action, inhibition strategies and significance in neurodegeneration**
Hans Brandstetter, Salzburg

11.05 **Coffee Break**

Chair: Michael Groll

11.25 **Lysosomes and lysosomal proteases shape the tumor microenvironment**
Thomas Reinheckel, Freiburg