

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 Schilling, Freiburg

13.05 **Lunch**

Chair: **Bernd Engels**

14.00 **Production of bioactive
substances: New reactor systems
for the cultivation of cyano
bacteria**

Dorina Strieth, Kaiserslautern

14.25 **Vinylsulfone-based inhibitors of
rhodesain**

Sascha Jung, Mainz

14.50 **Ovastacin - fertility regulated by a
cortical granule protease**

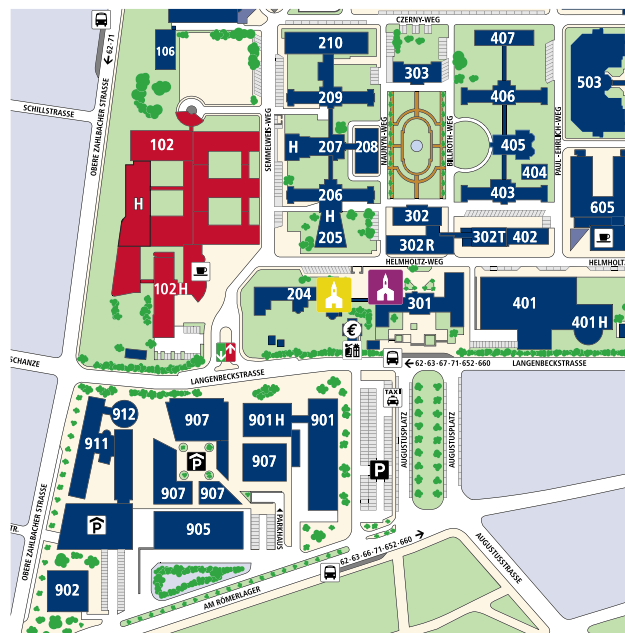
Hagen Westphal, Mainz

**Concluding remarks &
end of meeting**

Tanja Schirmeister / Walter Stöcker /
Roland Stauber

Lageplan

Universitätsmedizin Mainz



Geb. 102, Hörsaal der HNO Klinik (H)

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

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November 27 & 28, 2015

ChemBioMed V - Molecular Switches in Disease & Development

**Symposium 2015
Program**

Unser Wissen für Ihre Gesundheit



UNIVERSITÄTS**medizin.**
MAINZ

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

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

14.50 **Novel Cathepsin B Inhibitors with
Inversely Oriented Warheads**
Michael Gütschow, Bonn

15.25 **Coffee Break**

Chair: Hans Brandstetter

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

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