Saturday, November 28th (continued)

| 12.00 | 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 |

In the quest for novel antivirals:

13.05 Lunch

12 00

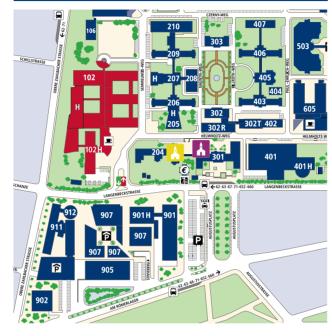
| Chair: | Bernd Engels |
|--------|--|
| 14.00 | Novel Cathepsin B Inhibitors with Inversely Oriented Warheads Michael Gütschow, Bonn |
| 14.35 | Production of bioactive substances: New reactor systems for the cultivation of cyano bacteria Dorina Strieth, Kaiserslautern |
| 14.55 | Vinylsulfone-based 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

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



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 TAILS Proteomics of a MALT1** 13.30 **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 Christopher Overall** Chair: 16.15 ADAM 17 in the Regulation of Inflammation and Cancer Stephan Rose-John, Kiel Should I stay or should I go: Proton 16.50 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 acitivities: 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