





# Agenda of the 8<sup>th</sup> Proteome Forum Rostock

Wednesday, 4<sup>th</sup> of December 2013

## I. Proteome Forum

Chair: **M.O. Glocker, Rostock**

11:00 – 11:15 **M.O. Glocker, Proteome Center Rostock**

Welcome and meeting overview

11:15 – 11:45 **H.-J. Thiesen, Institute of Immunology**

The history of the KRAB-ZNF discovery

11:45 – 13:00 **R. Ebel, Sigma-Aldrich Chemie GmbH**

Targeted genome editing in mammalian cells using engineered Zinc finger nucleases

13:00 – 14:30 Lunch Break

## II. Participants' Camp

Chair: **M.O. Glocker, Rostock**

14:30 – 15:00 **C. Röwer, Proteome Center Rostock**

Expression analysis and structural characterization of ezrin in lymph node metastases of breast cancer patients

15:00 – 15:20 **G. Mukherjee, Proteome Center Rostock and Urology Department**

Quantitative proteome profiling of urinary bladder cancer - First steps

15:20 – 15:40 **J. Yang, Proteome Center Rostock and Plastic Surgery Department, Berlin**

Single Amino Acid polymorphism Sequence Heterogeneity On Demand Transmutator (SAPshodt) and its implementation into the Inforsense Knowledge Discovery Environment (KDE) platform

15:40 – 16:00 Break

## III. Proteome Forum

Chair: **M.O. Glocker, Rostock**

16:00 – 16:40 **Pannel Discussion**

Genome-oriented Medicine

16:40 – 17:00 Coffe and Tea Break



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## **IV. Faculty Research Seminar – Proteome Forum** Chair: H.-J. Thiesen, Rostock

17:00 – 18:00 **E. Funk, Illumina**  
Application of next generation sequencing in proteome research

18:00 – 19:00 **A. Frenzel, TU Braunschweig**  
Generation of recombinant antibodies for proteome research



# Agenda of the 8<sup>th</sup> Proteome Forum Rostock

Thursday, 5<sup>th</sup> of December 2013

## V. Participants´ Camp

Chair: M.O. Glocker, Rostock

11:00 – 11:30 **R.G. Mundkowski**, Institute of Clinical Pharmacology  
Nanoparticles as theranostic tools for cancer and neurodegenerative diseases

11:30 – 11:50 **M. Hoffmann**, Institute of Clinical Pharmacology  
Studies on the influence of theranostic nanoparticles on polymorphonuclear neutrophils

11:50 – 12:20 **S. Zatrech**, Department of Orthopedics  
Implant-Related Infections in Total Joint Arthroplasty: In vitro Analysis of Bacterial Colonization and Biofilm Formation on Human Primary Osteoblasts

12:20 – 14:00 Lunch Break

## VI. Proteome Forum – Keynote Lecture

Chair: M.O. Glocker, Rostock

14:00 – 14:30 **H.-J. Thiesen**, Institute of Immunology  
The “Rostock Epitope Screening Center”: Epitope – antibody reactivities (EAR) of intravenous immunoglobulins (IVIg)

## VII. Participants´ Camp

Chair: M.O. Glocker, Rostock

14:30 – 14:50 **K. Opuni**, Proteome Center Rostock and Rheumatology Clinic, Magdeburg  
Structural and functional characterization of Glucose-6-phosphate isomerase autoantigen - antibody Interactions

14:50 – 15:10 **Y. Yefremova**, Proteome Center Rostock and Urology Department  
Mass spectrometric characterization of Protein G´ structure changes

15:10 – 15:30 **M. Al-Majdoub**, Proteome Center Rostock and Institute of Immunology  
Biochemical epitope-paratope interaction studies: Towards specific antibody-antigen isolation procedures

15:30 – 16:30 Coffe and Tea Break



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## **VIII. Participants´ Camp**

**Chair: H.-J. Thiesen, Rostock**

16:30 – 16:50 **P. Müller**, Reference and Translation Center for Cardiac Stem Cell Therapy  
Non-viral re-programming of hMSCs into cardiomyocytes

16:50 – 17:10 **F. Hausburg**, Reference Center for Cardiac Stem Cell Therapy  
Reprogramming of somatic cells into cardiomyocytes

17:10 – 17:40 **R. David**, Reference and Translation Center for Cardiac Stem Cell Therapy  
Generation of functional cardiac pacemaker tissue from pluripotent stem cells

17:40 – 18:00 **N. Voronina**, Reference Center for Cardiac Stem Cell Therapy  
Genetic modification for cardiac angiogenesis using magnetic nanoparticle-based delivery of micro-RNA

18:00 – 18:20 **M. Jacobs**, Proteome Center Rostock and Department of Surgery  
Mass spectrometric proteome analysis of traumatized and healthy muscle to characterize molecular processes during tissue injury

## **IX. Proteome Forum and Participants´ Camp**

**Chair: H.-J. Thiesen, Rostock**

18:20 – 18:30 **M.O. Glocker**, Proteome Center Rostock  
Meeting closure and farewell