Participants’ Camp Winter Semester 2016 / 2017

Program

Structured Curriculum for MD and PhD students
Molecular Mechanisms of Regenerative Processes

University Medicine Rostock

14th – 15th of December, 2016
**Wednesday, 14th December, 2016**

10:30-10:40  **Welcome address** – (tba)
*Conference Opening*

### Session I: Clinical Genome Research and Gene Regulation
(Chair: M. Sc. Bright D. Danquah)

10:40-11:40  **Prof. Dr. Hans-Jürgen Thiesen**, Institute of Immunology
*From stratification of HRO cancer patients suffering from clear cell renal cellular carcinoma (ccRCC) to Checkpoint-Inhibitor-Response.*

11:40-12:00  **M. Sc. Hasan Albony**, Institute of Immunology
*Synchronization of HAP1 cells to study PDZ-binding kinase/T-LAK cell-originated protein kinase (PBK/TOPK) activity*

12:00-12:20  **M. Sc. Mohammad Al Chiblak**, Institute of Immunology
*Determination of transcriptional repression potential for ZNF746 and ZNF777*

12:20-13:20  **Lunch Break**

### Session II: Affinity Mass Spectrometry
(Dr. Med. Dent. Vinay V. Kumar)

*Epitope – Antigen Reactivities probed by Biosensor Analysis and Mass Spectrometry*

13:40-14:00  **M. Sc. Loredana-Mirela Lupu**, Steinbeis Center Biopolymer Analysis and Biomedical Mass Spectrometry and Proteome Center Rostock
*Development of online-SPR-MS and application to epitope analysis of aptamers*

14:00-14:20  **M. Sc. Charles Ayensu Okai**, Proteome Center Rostock
*Diagnosis of intra-uterine growth restriction (IUGR) by serum profiling using affinity mass spectrometry*

14:20-14:40  **M. Sc. Yannick Baschung**, Steinbeis Center Biopolymer Analysis and Biomedical Mass Spectrometry and Proteome Center Rostock
*Biosensor and Mass Spectrometric Approaches to Investigate Sugar–Protein Interactions*

### Session III: Podium Discussion and PhD Defence
(Chair: M. Sc. Michael Rabenstein)

14:40-15:00  **Podium Discussion**
*Structured MD and PhD curricula: Pros and cons of structured education for post graduates*

**Dr. Martin Dube (invited)**, Ministerium für Bildung, Wissenschaft und Kultur Mecklenburg-Vorpommern
**Prof. Dr. Hans-Jürgen Thiesen**, Institute of Immunology
**Prof. Dr. Michael O. Glocker**, Curriculum committee speaker

15:00-16:00  **M. Sc. Jingzhi Yang**, Proteome Center Rostock
*PhD defense*
**Wednesday, 14th December, 2016 - continued**

**Session IV: Advanced Proteome Research**  
(Chair: M. Sc. Markus Wolfien)

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<th>Time</th>
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<td>16:00-17:00</td>
<td><strong>Mr. Daniel Rey</strong>, ProteinSimple</td>
<td><strong>Instrument presentation</strong></td>
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| 17:00-18:00 | **Prof. Dr. Simone König**, University of Münster  
**Dr. Günter Thesseling**, Serva GmbH | **Comparative 2D Fluorescence Gel Electrophoresis, Introducing standardization to PAGE** |
| 18:00-19:00 | **Dr. Carsten Lück**, ProteinSimple | **The Simple Western**                                                |
| 20:00-22:00 | Dinner: **Restaurant Stilbruch Rostock** |                                |
Thursday, 15th December, 2016

Session V: Cells and Surfaces
(Chair: M. Sc. Isabel Groß)

09:30-10:30  Prof. Dr. Nils Kröger, B CUBE Center for Molecular Bioengineering, TU Dresden,  
From Silica Formation in Diatoms to a Synthetic Biology for Biominerals

10:30-10:50  Dr. Med. Dent. Vinay V. Kumar, Department of Oral Maxillofacial and Facial Plastic Surgery  
Proteomic signature of regenerated soft tissue over transplanted free fibula flap for mandibular reconstruction

10:50-11:10  M. Sc. Michael Rabenstein, Albrecht-Kossel-Institute for Neuroregeneration  
Altered Chloride Conductibility in Purkinje Cells of a NPC1 Mouse Model

11:10-11:30  M. Sc. Luise Borufka, Department of Medicine, Division of Gastroenterology  
Lymphocyte Transfer Experiments

11:30-12:30  Lunch break

Session VI: From Proteomes to Pathways
(Chair: M. Sc. Hasan Albony)

12:30-13:30  Dr. Leonhard Pollack, Olink Proteomics  
Proseek Multiplex: A Precision proteomics solution for targeted protein biomarker discovery

13:30-13:50  M. Sc. Markus Wolfien, Dept. of Systems Biology and Bioinformatics  
Customized workflow development in Galaxy

13:50-14:10  M. Sc. Isabel Groß, Institute of Anatomy  
Signaling Pathways of Plasticity-related Gene 5 Interactions in Membrane Modification Processes

14:10-14:30  M. Sc. Sara Ramminger, NIED - Neubrandenburg Institute of Evidence-based Dietetics  
Investigations of the genetic variability of the glycolysis pathway and the CoGAP molecules in humans

14:30-15:30  Prof. Dr. Michael O. Glocker, Proteome Center Rostock  
Clinical Application of Mass Spectrometric Epitope Mapping

15:30-15:40  Closing remarks and outlook for the next PC
Location on Campus:

Ernst-Heydemann-Str. 6, Room 1.214.