

# Program

## Internal PhD Symposium Research in Molecular and Cell Biological Sciences

March 24th and 25th 2011

*Talks will be given in N/H1, Biocenter, Campus Riedberg, Goethe University Frankfurt. The poster session takes place in front of H1 and is open throughout the symposium.*

### March, 24th 2011

08:30 Conference Registration starts – entrance lecture hall H1 in N100, Biocenter, Campus Riedberg

09:00 - 09:10 Opening: **Volker Dötsch**

#### **Session I: Membrane Proteins**

Chair: Lucy Forrest

09:10 - 09:30 **Bertram Daum**  
*Macromolecular organization of the Chloroplast*

09:30 - 09:50 **Mohamed Ibrahim**  
*How to regulate protein translocation?*

09:50 – 10:10 **Doreen Matthies**  
*A bacterial F1Fo-ATP synthase: cell-free expression, assembly and characterization of a 542-kDa membrane complex, consisting of 25 proteins*

10:10 – 10:30 **Marcus Stamm**  
*AlignMe – a membrane protein sequence alignment program*

10:30 – 10:50 *Coffee Break*

Chair: Rupert Abele

10:50 – 11:10 **Susanne Stefer**  
*The membrane protein Get1 facilitates tail-anchored protein targeting to the ER membrane*

11:10 – 11:30 **Reza Dastvan**  
*Pulsed Electron-Electron Double Resonance (PELDOR) distance measurements in vesicles and micelles*

- 11:30 – 11:50      **Christoph Baldauf**  
*The Da Vinci Code of TAP - decoding the conformation of antigenic peptides bound to an ABC transporter*
- 11:50 – 12:10      **Irina Jan**  
*The unique TMD0 of the lysosomal polypeptide transporter TAPL - a domain with various functions*
- 12:10 - 12:30      **Rebecca Gärtner**  
*Structure and function of tripartite ATP-independent transporter complexes*
- 12:30 - 13:30      *Lunch Break*
- 13:30 - 14:30      **Poster Session**

### **Session II: Nucleic Acids Biology**

Chair: Markus Bohnsack

- 14:30 - 14:50      **Robert Hänsel**  
*Effects of molecular crowding on human telomeric quadruplex structure*
- 14:50 - 15:30      **Mirka-Kristin Verhoefen & Nina Gildenhoff**  
*Time-resolved Spectroscopy*
- 15:30 - 15:50      *Coffee Break*
- 16:10 - 16:30      **Peter Trojanowski**  
*Investigating RNA by means of time-resolved spectroscopy*

### **Session III: Mitochondrial Research**

- 16:30 - 16:50      **Jan Kief**  
*Mitochondrial dynamics in *S. cerevisiae**
- 16:50 - 17:10      **Angelo Occhipinti**  
*Mitophagy in yeast and higher eukaryotes*
- 17:10                *Pizza and Drinks*

March, 25th 2011

**Session IV: Signalling Networks**

Chair: Steve Husson

- 09:00 - 09:30      **Martin Vabulas**  
*Aberrant multi-protein complex formation in the cell*
- 09:30 - 09:50      **Lei Shi**  
*Effect of MicroRNA-223 on hypoxic pulmonary hypertension*
- 09:50 - 10:10      **Philipp Bishay**  
*Neuropathic Pain and Dysfunction of the Endocannabinoid System*
- 10:10 - 10:30      **Alexis Rozenknop**  
*Characterization of the interaction of MAP1LC3 proteins with the LIR motif of autophagic receptors*

10:30 - 10:50      *Coffee Break*

Chair: Roger Draheim

- 10:50 - 11:10      **Marco Sisignagno**  
*Endogenous lipids as peripheral pain modulators*
- 11:10 - 11:30      **Eduard Hergenreider**  
*Endothelial KLF2-induced microRNAs modulate smooth muscle cell phenotype*
- 11:30 - 11:50      **Gregor Deutsch**  
*Regulation of the oligomeric state of TAp63a: 2 inactive 4 destruction*
- 11:50 - 12:10      **Philipp Wild**  
*Phosphorylation of Optineurin promotes autophagy of cytosolic Salmonella*
- 11:10 - 12:30      **Stephanie Ley**  
*Apoptotic cell supernatant induces interleukin 10 in macrophages – the story of a high-throughput screen validation*
- 12:45                **Award of best poster and talk prizes**
- 14:00 - 16:00      **Rob van Daalen, Werner Mäntele, Arthur Eger**  
*How to Publish Your Manuscript: From title to references From submission to revision*