

Wednesday, March 29th

Session 7: **Cellular Targeting**

Chair: Dieter Wolf

- 09:00 **Keynote lecture**
Maya Schuldiner (Rehovot)
SNDing proteins to the ER
- 09:40 **Thomas Sommer** (Berlin)
Functional analysis of ubiquitin ligases
- 10:10 - 10:40 Break

Session 8: **Nuclear Signaling**

Chair: Asifa Akhtar

- 10:40 **Giacomo Cavalli** (Montpellier)
3D Genome organization and epigenetic regulation
by Polycomb proteins
- 11:10 **Asifa Akhtar** (Freiburg)
Epigenetic regulation by histone acetylation
- 11:40 **Andreas Ladurner** (München)
Cellular ADP-ribosylation and nuclear dynamics
- 12:10 **Final remarks**
End of meeting

Organization

Organizing Committee
Collaborative Research Center 746 (SFB 746)
“Functional Specificity by Coupling and
Modification of Proteins”

Thomas Jank
Klaus Aktories
Asifa Akhtar
Bernd Fakler
Nikolaus Pfanner

Conference Venue

Lecture Hall
Otto-Krayer-Haus
Institut für Experimentelle und Klinische
Pharmakologie und Toxikologie
Albertstr. 25
79104 Freiburg
Germany

Information / Registration

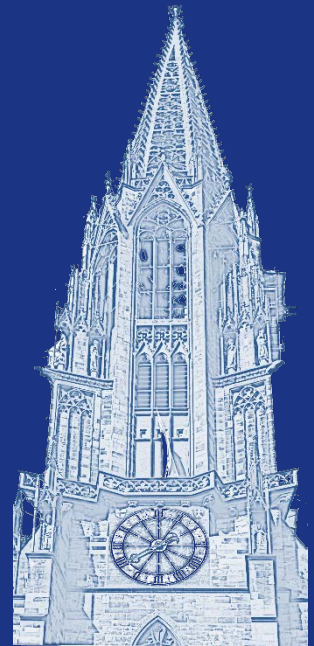
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International Symposium
**Coupling and Modification
of Proteins**

Program

March 27-29, 2017

Lecture Hall
Otto-Krayer-Haus
Albertstr. 25
79104 Freiburg
Germany



Albert-Ludwigs-Universität Freiburg
Sonderforschungsbereich 746



Monday, March 27th

- 09:00 **Registration**
Mounting of posters
All posters will be displayed throughout the meeting
- 10:15 **Opening of the meeting (Bernd Fakler)**

Session 1: **Membrane – Membrane Transport – Cytosol Interaction** Chair: Klaus Aktories

- 10:20 **Keynote lecture**
Peter Hegemann (Berlin)
Natural light-regulated enzymes for coupled two component optogenetics
- 11:00 **Robert Tampé** (Frankfurt)
Antigens on the move: new twists and turns in adaptive immunity
- 11:30 **Feng Shao** (Peking)
Pyroptosis in anti-bacteria immunity: sensing & execution

12:00 - 14:30 Break

Session 2: **Functional Specificity and Protein Structure** Chair: Sabine Rospert

- 14:30 **Stefan Offermanns** (Bad Nauheim)
Endothelial cell necroptosis via DR6 promotes tumor cell metastasis
- 15:00 **Nina Morgner** (Frankfurt)
Native mass spectrometry: interrogating non-covalent protein complexes
- 15:30 **Ralf Baumeister** (Freiburg)
Interactions of serum- and glucocorticoid-inducible kinase SGK-1 couple several pathways to regulate endomembrane dynamics, stress responses and longevity

16:00 - 16:30 Break

Session 3: **Toxins and Signaling** Chair: Roland Benz

- 16:30 **Borden Lacy** (Nashville)
Structures and functions of the *Clostridium difficile* toxins, TcdA and TcdB
- 17:00 **Thomas Jank** (Freiburg)
Modification of Rho by tyrosine glycosylating toxins

Short talks from poster abstracts

- 17:30 **Heidi Olzscha** (Oxford)
Bromodomains control amyloid-like aggregation of aberrantly acetylated proteins
- 17:45 **Lena Hoffmann** (Freiburg)
Archaeal signal transduction
- 18:00 **Reception / Poster Session**

Tuesday, March 28th

Session 4: **Mitochondria** Chair: Klaus Pfanner

- 09:00 **Thomas Becker** (Freiburg)
Molecular cooperations of mitochondrial protein translocases
- 09:30 **Cole Haynes** (Worcester)
Mitochondrial UPR signaling and toxic genomes
- 10:00 **Jared Rutter** (Salt Lake City)
Mitochondria, metabolism and cellular decisions: entwined in health and disease

10:30 - 11:00 Break

Session 5: **Ion Channels** Chair: Bernd Fakler

- 11:00 **Thomas Gudermann** (München)
Taken by force - mechanosensitive GPCRs
- 11:30 **Bernd Fakler** (Freiburg)
Biogenesis of AMPA receptors and its significance for synaptic transmission and learning

Short talks from poster abstracts

- 12:00 **Ritwick Sawarkar** (Freiburg)
Chromatin modifications buffer genetic variation
- 12:15 **Heinz Neumann** (Dortmund)
In vivo proteomics of the nucleosome with genetically installed UV-crosslinkers

12:30 - 14:30 Break

14:30 - 17:00 **Poster Session**

Session 6: **Posttranslational Modification and Protein Function** Chair: Carola Hunte

- 17:00 **Stefan Raunser** (Dortmund)
The power of cryo-EM: structural insights into Tc toxin action
- 17:30 **Sonja Albers** (Freiburg)
Function and regulation of the archaellum, the archaeal motility structure
- 18:00 **Kaspar Locher** (Zürich)
Structural and mechanistic studies of membrane proteins of the bacterial *N*-glycosylation pathway

Speakers' dinner