

Lecture Hall Otto-Krayer-Haus, Albertstraße 25, D-79104 Freiburg

Program

Monday, March 23, 2026

Opening of the meeting

01:00 pm Registration

02:00 pm **Chris Meisinger** (Speaker SFB 1381)
Opening remarks

Session I: Mitochondrial protein machineries
Chair: **Carola Hunte**

02:10 pm **Johannes Herrmann** (Kaiserslautern)
Mitochondrial protein biogenesis: A big challenge for eukaryotic cells

02:40 pm **Nora Vögtle** (Heidelberg)
Mitochondrial proteostasis

03:10 pm **Thomas Langer** (Köln)
Programming of mitochondria by proteolysis

03:40 pm **Agnieszka Chacińska** (Warsaw)
Quality control of mitochondrial protein import

04:10 pm *Coffee break*

Session II: Protein machineries in protein synthesis and quality control
Chair: **Pitter Huesgen**

04:40 pm **Tim Clausen** (Wien)
The ubiquitin big bang theory

05:10 pm **Sharon Tooze** (London)
Initiation of autophagy

05:40 pm **Claudine Kraft** (Freiburg)
The autophagy machinery functions through dynamic phase separation

06:10 pm **Thorsten Hugel** (Freiburg)
Memory and randomness in the organization of the Hsp90 machinery

06:40 pm **Flash talks**

07:00 pm *Welcome reception and poster session*

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Tuesday, March 24, 2026

Session III: DNA and RNA processing machineries

Chair: Annegret Wilde

09:00 am **Torsten Ochsenreiter** (Bern)

How to link mitochondrial genome maintenance and cell division: the tripartite attachment complex in Trypanosoma brucei

09:30 am **Katja Sträßer** (Gießen)

Phosphorylation of the mRNP component Yra1 couples heat shock to nuclear mRNA export inhibition

10:00 am **Asifa Akhtar** (Freiburg)

Identification and characterization of MOF interaction and substrate repertoire

10:30 am *Coffee break*

Session IV: Dynamic prokaryotic protein machineries

Chair: Matthias Boll

11:00 am **Julia Fritz-Steuber** (Stuttgart)

The Na⁺-translocating NADH:quinone oxidoreductase from pathogenic bacteria: essential redox pump and promising target for antibiotics

11:30 am **Sonja-Verena Albers** (Freiburg)

Horizontal transfer of the archaeal machinery to bacteria

12:00 pm **Morgan Beeby** (London)

Inferring how protein machineries evolve by visualising flagellar motors in situ

12:30 pm **Ben Engel** (Basel)

Environmental structural biology: Exploring the molecular architecture of bioenergetic organelles

01:00 pm *Lunch break*

Session V: Signalling machineries

Chair: Thomas Ott

02:30 pm **Jacob Piehler** (Osnabrück)

Structural and functional plasticity of cytokine receptor signaling complexes

03:00 pm **Chris Meisinger** (Freiburg)

Oncogenic hijacking of the mitochondrial import machinery

03:30 pm *Coffee break and poster session*

Session VI: Young researchers session - Speakers invited by SFB1381/SGBM PhD students

Chair: PhD students' representatives: Mirjam Odermatt and Aaditya Jonnalagadda

04:30 pm **Melanie McDowell** (Frankfurt)

Structural insights into membrane protein biogenesis at the ER

05:00 pm **Matthias Rief** (München)

Single molecule mechanics of proteins and RNA

05:30 pm **Viviane Timmermann** (Freiburg, SFB1381 Young Investigator Grantee)

Navigating the TCR machinery: A likelihood-based feedback analysis

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Wednesday, March 25, 2026

Session VII: Protein machineries in organelle remodeling and bioenergetics

Chair: Wolfgang Schamel

09:00 am **Heidi McBride** (Montreal)
New insights into the role of mitochondria in the biogenesis of peroxisomes

09:30 am **Hans-Georg Koch** (Freiburg)
The ribosome as a switchboard for coordinating the bacterial stress response

10:00 am **Helge Ewers** (Berlin)
Multiscale imaging of cytokinesis

10:30 am *Coffee Break*

Keynote Lecture

Chair: Chris Meisinger

11:00 am **Michael N. Hall** (Basel)
mTOR signaling in growth, metabolism and disease

12:00 pm *Lunch break*

Session VIII: Protein machineries driving cellular structure and function

Chair: Ralf Baumeister

02:00 pm **Edward Lemke** (Mainz)
Decoding molecular plasticity in the dark proteome

02:30 pm **Sebastian Schuck** (Heidelberg)
Protein relocalisation during ER stress: revealing the spatial dimension of a cellular stress response

03:00 pm **Oliver Einsle** (Freiburg)
Nitrogenase and the power of biological nitrogen fixation

Closing remarks

03:30 pm **Chris Meisinger**