



International Symposium Dynamic Organization of Cellular Protein Machineries

March 9-11, 2022

Program

Wednesday, 9th of March 2022

Opening of the Meeting

01:45 pm Dial-in Zoom

02:00 pm Opening remarks
Chris Meisinger

Session I: Protein Machineries in Protein Synthesis and Quality Control I

Chair: Hans-Georg Koch

02:10 pm **Ivan Đikić**
Endoplasmic reticulum remodelling via ER-phagy pathways

02:40 pm **Elke Deuerling**
Mechanism of protein sensing and sorting at the ribosome

03:10 pm **Nora Vögtle**
Cellular responses to mitochondrial proteotoxic stress

03:40 pm **Bernd Bukau**
Mechanisms of co-translational protein folding and assembly

04:10 pm Coffee Break

Keynote Lecture

Chair: Chris Meisinger

04:40 pm **Roland Lill**
Biogenesis of iron-sulfur proteins in eukaryotes: Mitochondria, Mitosomes, Mechanisms and Maladies



Thursday, 10th of March 2022

Session II: Protein Machineries in Protein Synthesis and Quality Control II

Chair: Matthias Boll

- 09:00 am **Ramanujan Hegde**
Quality control during the assembly of protein complexes
- 09:30 am **Christian Ungermann**
Mechanistic insights into endosomal maturation and organelle identity
- 10:00 am **Sabrina Büttner**
Manganese-driven CoQ deficiency

10:30 am Coffee Break

Session III: Protein Machineries in Protein Synthesis and Quality Control III

Chair: Ralf Baumeister

- 11:00 am **Martin Ott**
Organization and regulation of mitochondrial protein synthesis
- 11:30 am **Sabine Rospert**
Ribosome-bound Get4/5 connects translation with the guided entry of tail-anchored proteins (GET) targeting pathway
- 12:00 pm **David Haselbach**
Nuclear import of the mammalian 26S proteasome

12:30 pm Lunch Break

Session IV: Protein Translocation Machineries

Chair: Thorsten Hugel

- 02:00 pm **Ulrike Kutay**
Ribosome synthesis in human cells
- 02:30 pm **Chris Meisinger**
Signal switches at the mitochondrial protein import machinery
- 03:00 pm **Anne Spang**
FERARI and cargo adaptors regulate cargo flow in the endocytic system

03:30 pm Coffee Break



Session V: Protein Machineries in Epigenetics

Chair: Annegret Wilde

- 04:00 pm **Peter Becker**
Roles for Domino complexes in transcription regulation and the DNA damage response
- 04:30 pm **Eva Schäfer**
Loss of Polycomb Repressive Complex 1 drives oncogenic signaling in leukemia
- 05:00 pm **Asifa Akhtar**
MOF complexes: Epigenetics meets Metabolism

Friday, 11th of March 2022

Session VI: Assembly of Respiratory Chain Complexes

Chair: Carola Hunte

- 09:00 am **Mike Ryan**
New insights into complex IV assembly
- 09:30 am **Ulrich Brandt**
Assembly and modular architecture of mitochondrial complex I
- 10:00 am **Thomas Meier**
Dynamic structures of ATP synthases and their role as new drug targets against infectious diseases
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- 10:30 am Coffee Break
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Young Researchers Session – Speakers invited by SFB1381 PhD students

Chair: Arpita Nandy (PhD students' representative)

- 11:00 am **Nenad Ban**
Structural basis of protein synthesis and biogenesis in eukaryotes: from basic principles to translation in coronavirus infected cells
- 11:30 am **Einat Zalckvar**
New concepts in protein targeting to peroxisomes - Being in the right place at the right time
- 12:00 pm **Laura Gámez-Díaz**
Dynamics of LRBA machinery in autophagy and vesicle trafficking
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- 12:30 pm Lunch Break
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Session VII: Protein Machineries in Protein Synthesis and Quality Control IV

Chair: Maja Köhn

- 02:00 pm **Irmgard Sinning**
Mechanisms of membrane protein biogenesis by the GET insertase complex
- 02:30 pm **Oliver Einsle**
Tracing the machinery of cytochrome c maturases
- 03:00 pm **Flash talks**
 Ludovic Enkler
The small GTPase Arf1 regulates ATP synthesis and mitochondria homeostasis by modulating fatty acid metabolism
 Martin Milanov
Adaptive remodeling of ribosome composition and function in response to metabolic changes and cellular stress
 Lukas Brandherm
Interactions between the SARS-CoV-2 protein Orf9b and TOM70
 Julia Schimpf
Understanding the assembly and directionality in the multi-component Hsp90 machinery by single molecule FRET

03:30 pm Coffee Break

Session VIII: Dynamic Prokaryotic Protein Machineries

Chair: Wolfgang Schamel

- 04:00 pm **Melanie Blokesch**
V. cholerae's protein machines involved in horizontal gene transfer
- 04:30 pm **Ariane Briegel**
Exploring the structure and function of microbial motility: chemotaxis and intermicrobial transport
- 05:00 pm **Sonja-Verena Albers**
Structure and function of the archaellum, the archaeal motility structure

Closing Remarks

05:30 pm **Chris Meisinger**