



Université  
franco-allemande  
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Hochschule



# **ASSEMBLY OF COFACTOR CONTAINING PROTEINS**

**25. – 26. FEBRUAR 2010**

Workshop organized by the

**International Research Training Group on Membranes and  
Membrane Proteins (DFG-GRK 1478)**

**&**

**German-French PhD College “Membranes and Membrane  
Proteins” (UFA 0407)**

**&**

**DFG-Research Unit “Dynamics of Bacterial Membrane Proteins”  
(DFG-FOR 929)**

**Institut für Biochemie und Molekularbiologie  
der Albert-Ludwigs-Universität Freiburg,  
Stefan-Meier-Strasse 17, 79104 Freiburg, Germany  
Seminarraum 01.006**

## Thursday, 25. February 2010

- 12.00 Arrival and Lunch at the Foyer of the Institute  
13.30 – 13.45 Hans-Georg Koch, Univ. Freiburg  
Welcome and Introduction

### Iron-uptake and Iron-dependent proteins

Chair: Isabelle Schalk, Univ. Strassbourg

- 13.45 – 14.30 **Roland Lill, Univ. Marburg**  
How eukaryotes transport iron to generate heme- and Fe/S-cluster containing proteins
- 14.30 – 14.50 **Gaetan Mislin (AG Schalk)**  
Through the looking-glass: the discovery of an enantio-pyochelin dependent iron uptake in *Pseudomonas*
- 14.50 - 15.10 **Sabrina Noel (AG Schalk)**  
The iron uptake pathway as antibacterial target
- 15.10 – 15.30 **Stefan Steimle (AG Friedrich)**  
Assembly of respiratory complex I
- 15.30 – 16.00 Coffee Break**

### Assembly of Respiratory Chain Complexes

Chair: Petra Hellwig, Univ. Strassbourg

- 16.00 – 16.45 **Bernd Ludwig, Univ. Frankfurt**  
Surf1, associated with Leigh syndrome in humans, binds heme *a* during bacterial COX biogenesis.
- 16.45 - 17.05 **Karina Wagner, (AG van der Laan)**  
Assembly and Dynamics of ATP-Synthase supercomplexes
- 17.05 – 17.25 **Heiko Erhardt (AG Friedrich)**  
Dynamics of the OXPHOS complexes
- 17.25 – 17.45 **Gregory Pawlik (AG Koch)**  
Assembly of Cytochrome *cbb*<sub>3</sub> Oxidase
- 17.45 - 18.05 **Sebastian Schroeder (AG Koch)**  
The role of Copper Chaperones for Cytochrome Oxidase assembly

**18.15 Dinner and Get-together at the Foyer of the Institute**

**Friday, 26. February 2010**

## **Cytochrome Biogenesis and Assembly**

**Chair: Dirk Schneider, Univ. Mainz**

- 9.00 – 9.45                    **Fevzi Daldal, Univ. of Pennsylvania**  
tba
- 9.45 – 10.05                **Mathias Weber (AG Schneider)**  
tba
- 10.05 - 10.25              **Julian Seidel (AG Einsle)**  
Bacterial Di-heme Cytochrome c Peroxidases
- 10.25- 10.45              **Youssef El Koury (AG Hellwig)**  
The zinc cations inhibitive effects on the cytochrome *bc1* complex from *Rhodobacter capsulatus*: Redox induced difference spectroscopic approach

**10.45 - 11.15 Coffee Break**

## **Transport, Assembly and Dynamics of Proteins I**

**Chair: Chris Meisinger, Univ. Freiburg**

- 11.15 - 11.35              **David Stroud (AGs Meisinger/Wiedemann)** Echoes from evolution or functional conservation: The POTRA domain in mitochondrial  $\beta$ -barrel biogenesis
- 11.35 – 11.55              **Felix Dempwolff (AG Graumann)**  
tba
- 11.55 – 12.15              **Barbara Perrone (AG Bechinger)**  
Orientation of alpha helix peptides in membranes: Solid State NMR and Circular Dichroism techniques in comparison

## **Transport, Assembly and Dynamics of Proteins II**

**Chair: Oliver Einsle, Univ. Freiburg**

- 12.15 - 12.35              **Luise Simon (AG Graumann)**  
tba
- 12.35 – 12.55              **Carlo Maurer (AG Müller)**  
tba

**13.00 Closing remarks**   **Nora Vögtle and Patrick Kuhn (Univ. Freiburg)**

**13.15 Lunch and departure**