



October 14th – 15th 2021

Organized by RTG1976 “Functional Diversity of Cofactors in Enzymes” Freiburg, Germany

Thursday, October 14th12⁴⁵ **Welcome****Session 1**

- 12⁵⁰ – 13¹⁰ **Daniela Loher (RTG1976, Hunte Group):** Structural and Functional Investigation of the Interaction between Yeast Cytochrome *bc₁* and Cytochrome *c*
- 13¹⁰ – 13⁵⁰ **Volker Dötsch (Frankfurt):** Cell-free Synthesis and NMR based Structure Determination of Membrane Proteins
- 13⁵⁰ – 14¹⁰ **Florian Schneider (RTG1976, Einsle Group):** Towards the Structure of NifB from *Azotobacter vinelandii*
- 14¹⁰ – 14⁵⁰ **David Haselbach (Wien/Freiburg):** Beyond the Resolution Revolution: Analyzing Dynamic Complexes with Cryo EM

14⁵⁰ – 15⁰⁰ **Coffee Break**15⁰⁰ – 16³⁰ **Poster Session 1**16³⁰ – 16⁴⁰ **Coffee Break****Session 2**

- 16⁴⁰ – 17²⁰ **Wilfried Weber (Freiburg):** Optogenetics for Interrogating and Controlling Cell Signalling
- 17²⁰ – 17⁴⁰ **Moustafa Okasha (RTG1976, Weber/Schleicher group):** Spectroscopic Analysis of the *Drosophila* Cryptochrome Photoreaction
- 17⁴⁰ – 18²⁰ **Volker Schünemann (Kaiserslautern):** Mössbauer Spectroscopy of Iron Proteins: From Classic Examples to Modern Experiments at Synchrotron Sources

Friday, October 15th**Session 3**

- 09⁰⁰ – 09⁴⁰ **Petra Hellwig (Strasbourg):** Nanoarchitectonics, Spectroscopy and Bioelectrochemistry for the Study of the Reactivity of Membrane Proteins from the Respiratory Chain
- 09⁴⁰ – 10⁰⁰ **Jana Gagsteiger (RTG1976, Layer group):** Characterization of the Cobalamin-Dependent Radical SAM Enzyme Responsible for the Unique C α -Methylation of a Glutamine Residue of Methyl-Coenzyme M Reductase
- 10⁰⁰ – 10⁴⁰ **Eric Foley (Oxford):** Mass Photometry of Membrane Associated and Integral Membrane Proteins

10⁴⁰ – 11¹⁰ **Coffee Break****Session 4**

- 11¹⁰ – 11⁵⁰ **Georg Winter (Wien):** Probing Gene Control in Cancer via Targeted Protein Degradation
- 11⁵⁰ – 12¹⁰ **Jianyu Li (RTG1976, Günther group):** Computational Framework to Decipher Protein-ligand Interaction. Case Study of Purine Nucleoside Phosphorylase, a Co-factor Dependent Enzyme
- 12¹⁰ – 12⁵⁰ **Steffen Lüdeke (Mainz):** Chirality in Biological and Bio-inspired Molecules: A Chiroptical Approach
- 12⁵⁰ **Closing Remarks**