

Cluster of Excellence Macromolecular Complexes
Focus Project Selection Symposium
Monday 16 March 2015, Bad Homburg

9:30 Welcome and introduction – Volker Dötsch

Session 1 (Chair: Inga Hänel)

9:40 “Heterodimeric ABC Transport Complexes – Form Conformational Dynamics to Mechanism”
Robert Tampé, Gerhard Hummer, Thomas Prisner & Eric Geertsma

10:05 “Ubiquitin modifications as key signaling hubs for the regulation of survival and of cell death pathways”
Ivan Dikic, Volker Dötsch, Simone Fulda, Mike Heilemann & Ina Koch

10:30 “Crosstalk between nuclear receptors and the transcriptional elongation machinery”
Dieter Steinhilber & Rolf Marschalek

10:55 *Coffee break*

Session 2 (Chair: Robert Ernst)

11:25 “Ubiquitin-like proteins of the human ATG8 family in spatio-temporal regulation of protein complexes”
Christian Behrends, Masato Akutsu, Volker Dötsch & Vladimir Rogov

11:50 “Electron microscopy of mitochondrial complex I”
Werner Kühlbrandt, Volker Zickermann & Ulrich Brandt

12:15 “Structural characterization of polyketide synthases (PKSs)”
Martin Grninger, Helge Bode & Achilleas Frangakis

12:40 *Lunch*

Session 3 (Chair: Martin Hengesbach)

14:00 “Electron cryo-microscopy of aptamer-protein complexes – A versatile approach for structural analysis of proteins < 200 kDa”
Daniel Rhinow, Beatrix Süß & Martin Pos

14:25 “Microbial rhodopsins as a tool to develop novel light-gated ion channels”
Clemens Glaubitz, Alexander Gottschalk, Thomas Prisner, Josef Wachtveitl & Christian Bamann

14:50 “Membrane-on-nanopore chip detection of antibiotic excretion by three-component efflux pumps”
Martin Pos & Robert Tampé

15:15 *Tea break*

Session 4 (Chair: Thomas Meier)

15:45 “Characterization of mechanisms controlling circular RNAs generation”
Michaela Müller-McNicoll, Stefanie Dimmeler & Kathi Zarnack

16:10 “Optochemical biology — in-situ membrane receptor clustering by light”
Ralph Wieneke, Robert Tampé & Mike Heilemann

16:35 “Discovery, structure and function of eukaryotic riboswitches in plants”
Harald Schwalbe, Enrico Schleiff & Jens Wöhnert

17:00 Closing words (Volker Dötsch)

Venue: Forschungskolleg Humanwissenschaften, Am Wingertsberg 4, 61348 Bad Homburg