



PROGRAMME

Thursday, September 24

12:00-16:00 Arrival, registration

16:00-16:10 **Introductory remarks, Jan Dohnálek**

16:10-16:30 **New groups: C. Bařinka, K. Schefzek**

Session I

Chair: Pavlına Řezáčová, IOCB Prague

- 16:30-16:45 **Sven Dahms** - Substrate Induced Activation of the Pro-Protein Convertase Furin *postdoc*
- 16:45-17:00 **Maria Rutkiewicz-Krotewicz** - Psychrotrophic beta-D-galactosidase with unusual domains arrangement *student*
- 17:00-17:15 **Iuliia Iermak** - Structural characterization of glyceraldehyde dehydrogenase from *Thermoplasma acidophilum* *student*
- 17:15-17:30 **Marta Grzechowiak** - Crystal structure of inorganic pyrophosphatase from a higher plant *student*
- 17:30-17:45 **Leona Švecová**- X-ray structure of Bilirubin oxidase form *Myrothecium verrucaria* with ligand in the active site *student*
- 17:45-18:00 **Mark Benson - Rigaku** - Latest developments in equipment for diffraction and scattering from Rigaku Oxford Diffraction *sponsor*
- 18:00-18:15 **Vernon Smith - Bruker** - Latest Developments in Home-Lab Macromolecular Crystallography and Bio-SAXS *sponsor*
- 18:15-19:15 Dinner

HEC lecture

Chair. Jan Dohnálek, IBT Prague

19:30-20:30 **Randy Read** - Building software to get better structures faster: likelihood in Phaser

21:00- HEC Committee meeting & Bar

Friday, September 25

7:30 Breakfast (at site of your accommodation)

Session II

Chair: Manuel Than, FLI Leibnitz

- 8:30-8:45 **Bilal Muhammad Qureshi** - Structural and Functional Analysis of Phytochrome Photoreceptors *postdoc*
- 8:45-9:00 **Oksana Degtjarik** - Structural aspects of the specificity within the multistep phosphorelay signaling in plants *postdoc*
- 9:00-9:15 **Martje Kunz** - Towards the structure of the Importin beta - Importin 7 complex *student*
- 9:15-9:30 **Sascha Walzer** - Towards the Structure of HCMV pUL50/53 *student*
- 9:30-9:45 **Peter Kirchweger** - Towards deciphering the structure of the SiiAB complex from *Salmonella enterica*, an integral membrane protein complex *student*
- 9:45-10:00 **Andreas Förster - Dectris** - Pushing the limits of experimental phasing with new HPC detectors *sponsor*
- 10:00-10:15 **Jochen Mueller-Dieckmann - Formulatrix** - Automation in Crystallization *sponsor*
- 10:15-10:45 Coffee break

Session III

Chair: Mariusz Jaskolski, CBB Poznan

- 10:45-11:00 **Piotr Wilk** - Structure Analysis fo Human Prolidase Mutations gives insight into the Prolidase Deficiency disease mechanisms *postdoc*
- 11:00-11:15 **Aleř Hnızda** - Hyperactivity of relapsed ALL-specific cN-II mutant is caused by affected allosteric regulation *student*
- 11:15-11:30 **Adéla Jılková** - Activation and inhibition of SmCB1, an antiparasitic drug target *student*
- 11:30-11:45 **Martin Zühlsdorf** - Dimerization-induced allosteric changes of the oxyanion-hole loop activate the pseudorabies virus assemblin pUL26N, a herpesvirus serine protease *student*



12:00-12:15	Hervé-William Rémigy - FEI - CRYO-TEM: A third member joins the high resolution band	<i>sponsor</i>
12:15-12:30	Rachel Macmaster - Molecular Dimensions - Advances in protein crystallography	<i>sponsor</i>
12:30-13:30	Lunch (Hotel U Kata)	
13:30-17:00	Enjoying Kutná Hora/Mines excursions etc...	

Session III**Chair: Wulf Blankenfeldt, HZI Braunschweig**

17:45-18:00	Julita Talaj - Anti-inflammatory drugs interactions with Ovine and Caprine Serum Albumins	<i>postdoc</i>
18:00-18:15	Franziska Huschmann - Crystallographic fragment-screening at the HZB MX-beamlines	<i>postdoc</i>
18:15-18:30	Ondřej Vaněk - Strategies for difficult targets: production of readily crystallizable glycoproteins in HEK293S GnTI- cell line, a case study of human lymphocyte receptors LLT1 and NKRP1	<i>postdoc</i>
18:30-18:45	Marcin Kowiel - Protonation and geometry of His residues	<i>student</i>
18:45-19:00	Christin Reuter - Jena Bioscience - A new ThermoFluor Design: Screens based on FUNDAMENTAL and SPECIFIC variables	<i>sponsor</i>
19:00-20:00	Dinner (Hotel U Kata)	
21:00-...	Bar (Sponsored by Jena Bioscience)	

Saturday, September 26

7:30 Breakfast (at site of your accommodation)

Session IV**Chair: Kristina Djinovic-Carugo, MFPL Vienna**

8:30-8:45	Martin Pannek - Characterization and modulation of mitochondrial Sirtuins 4 and 5	<i>postdoc</i>
8:45-9:00	Anja Greschuchna - Structural analysis of YrdC, responsible for activation of the N6-threonylcarbamoyl moiety in t6A37 tRNA modification	<i>student</i>
9:00-9:15	Andrea Schmidt - The fine-tuned machinery of O ₂ -tolerant [NiFe] hydrogenase	<i>postdoc</i>
9:15-9:30	Christian Feiler - Exploring the structural mechanisms of ubiquitination reactions	<i>postdoc</i>
9:30-9:45	Tobias Bock - Exploring unusual myxobacterial pathways- insights into the regulation of alternative isovaleryl-CoA biosynthesis	<i>student</i>
9:45-10:00	Vineet Gaur - Structure and mechanistic analysis of the Slx1-Slx4 endonuclease	<i>student</i>
10:00-10:30	Coffee break	

Session V**Chair: Udo Heinemann, MDC Berlin**

10:30-10:45	Marlena Kisiala - Structural studies of AvaII restriction endonuclease - RNA/DNA hybrid complex	<i>student</i>
10:45-11:00	Antonio Sponga - Structural characterization of the sarcomeric Z-disk FATZ: -actinin-2 complex	<i>student</i>
11:00-11:15	Karolina Zielinska - Structural basis of non-muscle -actinin regulation by calcium	<i>student</i>
11:15-11:30	Jan Driller - Structural studies on the synaptic active zone scaffold	<i>student</i>
11:30-11:45	Gert Weber - Structural studies on the selectivity of SNF binding to U1 and U2 snRNAs in <i>Drosophila melanogaster</i>	<i>student</i>
11:45-12:00	Peer Lukat - Griselimycins, Novel Anti Tuberculosis Agents: Structural Insights into the Mode of Action, Resistance and Biosynthesis	<i>postdoc</i>
12:00-12:15	Michal Szczepek - Crystal structure of a common GPCR-binding interface for G protein and arrestin	<i>postdoc</i>
12:15-12:30	HEC prize and concluding remarks	
12:30-13:30	Lunch (Hotel U Kata)	