

# Programme

**Thursday 20.09.2018**

**12:00 – Registration**

**15:00**

- 15:00 Milton T. Stubbs Welcome & opening remarks  
15:10 – New HEC groups Michael Lammers, Greifswald University  
15:20 Miriam Linnert, Fraunhofer Institut, Halle

## **Session I: Enzyme specificity and mechanisms**

Chair: *t.b.a.*

- 15:20 - Honorata Czapińska Modification dependent endonucleases  
15:35 Bochtler  
15:40 - Petra Havlickova\* Crystallographic studies of histidinol-phosphate phosphatase Tt82  
15:55 Kutá Smatanová from *Thermococcus onnurineus*  
16:00 - Jędrzej Rum\* Active site adaptability of cold-adapted PsyArAT to bind different  
16:15 Bujacz sized substrates  
16:20 - Leona Švecová\* So, what does the enzyme do? Structural data-based identification  
16:35 Dohnálek of substrate specificity  
16:40 - Archna Archna Elucidating the mechanism of the chorismate dehydratase MqnA  
16:55 Stubbs from *Streptomyces coelicolor*: searching for ligand-free crystals

**17:00 Coffee break**

## **Session II: Proteins from pathogens**

Chair: *t.b.a.*

- 17:30 - Christin Reuter Crystal growth to data collection made easy  
17:40 Jena Bioscience  
17:40 - Maurice Diwo\* Phospholipases from *Legionella pneumophila*  
17:55 Blankenfeldt  
18:00 - Thomas C-type cytochromes and eight-bladed  $\beta$ -propellers during nitrite  
18:15 Klünemann\* reduction and heme d1 biosynthesis  
Blankenfeldt  
18:20 - Sofia Banchenko X-ray and cryo-EM structural studies of viral hijacking of the  
18:35 Schwefel Cullin4-RING ligase ubiquitin-proteasome pathway  
18:40 - Johannes Of rats and men: Insight into homologous cytomegalovirus IE1  
18:55 Schweininger\* structures  
Muller

**19:00 Dinner**

## **The HEC Lecture**

Chair: Milton T. Stubbs

- 20:00 - Michael G. A personal history of structural virology from haemoglobin to Zika  
21:00 Rossmann virus  
Purdue University

**21:00 - Discussion & bar  
late**

\* PhD student

# Programme

Friday 21.09.2018

## Session III: Protein and RNA modifying enzymes

Chair: *t.b.a.*

- 08:30 - James Gordon Improving crystals by collaboration - Innovation from Molecular  
08:40 Molecular Dimensions Dimensions
- 08:40 - Sandra Riemer\* Molecular studies on Sirt1 regulation by its binding partner AROS  
08:55 Steegborn
- 09:00 - Saša Petrović\* Structural basis of ASPL-mediated regulation of p97 methylation by  
09:15 Heinemann METTL21D
- 09:20 - Deepshikha Malik\* Structure and mechanism of mitochondrial RNase Rexo2  
09:35 Nowotny
- 09:40 - Florian Hamann\* Crystallographic insights into the translocation mechanism of  
09:55 Ficner DEAH-box ATPases
- 10:00 - Marta Pabis Structural and functional characterization of Uba4, an essential  
10:15 Glatt enzyme in the tRNA thiolation pathway
- 10:20 - Patrick Shaw New strategies to improve productivity in structural biology  
10:30 Stewart including the use of multi-well on-plate DLS for pre-characterizing  
Douglas Instruments samples prior to cryoEM
- 10:30 Coffee break**

## Session IV: Challenging structure determinations

Chair: *t.b.a.*

- 11:00 - Alevtyna Thermo Fisher Scientific support in engaging in Cryo-EM SPA  
11:10 Yakushevskaya  
ThermoFischer
- 11:10 - Joanna Smietanska\* The landscape of Hyp-1 superstructure modulation  
11:25 Jaskolski
- 11:30 - Stefanie Hanke\* Structural studies on inhibitor binding to human kallikrein 7  
11:45 Sträter
- 11:50 - Francesca De Structural and functional characterization of the spliceosomal  
12:05 Bortoli\* protein Prpf39  
Wahl
- 12:10 - Antonia Vogel\* Keeping muscle proteins in shape - Delineating the substrate-  
12:25 Clausen targeting mechanism of UCS proteins that function as myosin-  
specific quality-control factors
- 12:30 - Tamara Sijacki Behind the muscle function: Structure of F-actin- $\alpha$ -ctinin-2  
12:45 DjinoVIC-Carugo complex
- 12:50 - Emanuel KatzmANN Advances in cryo electron microscopy instrumentation  
13:00 JEOL
- 13:00 - Lunch**  
**14:00**
- 14:00 - HEC21 photo followed by social event**  
**18:00**

\* PhD student



# Programme

Saturday 22.09.2018 (continued)

**Session VII: Synchrotron facilities for HEC (and others...)**

Chair: Klaus Scheffzek

11:00 - 11:15	Jan Wollenhaupt Weiss	Crystallographic Fragment Screening at HZB
11:20 - 11:35	Anastasya Shilova Müller	Development of serial millisecond crystallography at BioMAX beamline
11:40 - 11:55	Martin Gerlach Weiss	Facilities for macromolecular crystallography at the HZB
12:00 - 12:10		Announcement of HEC22
12:10	Milton T. Stubbs	HEC prize award and closing remarks
12:20 - 13:30	<i>Lunch and departure</i>	

