HEC24 – Programme

Standard lectures 12 min + 3 min discussion Flash talks – 5 min Commercial lectures – 10 min

Activation of the herpesviral nuclear egress complex ### Anna Occiurovscaia (Grzegorz Bujacz group) Structural and functional investigations into Glycocin-Glycosyltransferases 16:00 Daniela Gjorgjevikj (Markus Wahl group) Daniela Gjorgjevikj (Markus Wahl group) Architecture and functional dynamics of a large, virulence-associated DNA helicase from enterohaemorrhagic Escheric coli 16:30 Elzbieta Wątor (Przemek Grudnik group) Bi-30 Glari Helmer (Markus Wahl group) Towards understanding and inhibition of the herpesviral nuclear egress complex interaction of
Welcome and opening remarks Chairs: Manfred Weiss, Norbert Straeter 15:15 Presentation of new HEC group by Przemek Grudnik 15:30-17:05 Session 1 MX / Cryo-EM STRUCTURES, BACTERIAL ENZYMES AND REGULATORS Chairs: Wulf Blankenfeldt , Milton T. Stubbs 17:45 Petra Havlíčková (Ivana Kuta Smatanova group) Crystal structures of copper sensing bacterial histidine kinase 15:45 Michael Krummhaar (Christian Roth group) Structural and functional investigations into Glycocin-Glycosyltransferases 16:00 Daniela Gjorgjevikj (Markus Wahl group) Inhibition of a bacterial global gene regulator by a phage protein via forced hyper-oligomerization 16:15 Rezan Amjadi (Klaus Scheffzek group) High-resolution structure of human nucleoside diphosphate kinase C in complex with different nucleotides 18:30 Marta Gapińska (Marcin Nowotny group) Mechanism of protein-primed template-independent DNA synthesis by Abi polymerases 18:45 Magdalena Gawel (Krzysztof Brzezinskli/Mariusz Jaskolski group) 16:45 Carl Helmer (Markus Wahl group) 16:45 Lena M. Grass (Markus Vapszystof Brzezinskli/Mariusz Jaskolski group) 18:45 Magdalena Gawel (Krzysztof Brzezinskli/Mariusz Jaskolski group) 16:45 Lenting Michael Lammers group) Structural and biochemical characterization of the histone deacetylase-like amidohydrolase from klebsiella pneumonia deacetylase-like amidohydrolase from enterohaemorrhagic Escheric coli 18:30 Marta Gapińska (Marcin Nowotny group) Mechanism of protein-primed template-independent DNA synthesis by Abi polymerases
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High-resolution structure analysis of a small plant biocatalyst at sub 2 Å high-throughput screening and crystallographic approaches
resolution by Cryo-EM
18:50
17:00 Laila S. Benz (Manfred Weiss group)
Ruben Ananian (Christian Roth group) New chemical entities for modulating SARS-CoV-2 activity
First insights into the structure and function of the human glycogen
debranching enzyme 18:55
Zhennan Tian (Markus Wahl group)
Structural basis of co-transcriptional rRNA folding and
processing
17:05 Coffee to refreshment
17:05 Coffee, tea, refreshment 19:00 Vernon Smith (Bruker)
Getting it right from the start – Collecting better data with t
D8 VENTURE
DO VENTORE
19:30 Welcome dinner
21:00 Bar

Friday, September 23	Friday, September 23
9:00- 12:25 Session III	afternoon
9:00- 12:25 Session III DRUG DESIGN	14:30 Boat trip at Lipno lake
Chairs: Jan Dohnálek, Mariusz Jaskolski	16:00 Coffee, tea, refreshment
9:00	16:30-18:10 Session IV
Martin Malý (Jan Dohnálek group)	FRAGMENT SCREENING, PROTEIN DESIGN
Integrative structural study of antibiotic-inactivating enzyme from	Chairs: Cyril Bařinka, Matthias Bochtler
Stenotrophomonas maltophilia	
	16:30
9:15	Keerthiraju E Ravichandran (Sebastian Glatt group)
Anna Katharina Kottwitz (Miriam Linnert group) Development of monoclonal antibodies against 3-Nitrotyrosine-	E2/E3-independent ubiquitin-like protein conjugation by Urm1 protects the proteome under oxidative stress
Abeta suspected of being associated with Alzheimer's disease	
9:30	16:45 Shiram Shukla (Curil Bašinka graum)
Stefan Djukic (Pavlína Řezáčová group)	Shivam Shukla (Cyril Bařinka group) In-solution structure and oligomerization of human histone
Structural studies of human purine nucleoside phosphorylase	deacetylase 6 - an integrative approach
inhibitors	,
	17:00
9:45	Kinga Pokrywka (Mariusz Jaskolski group)
Zdeněk Vavřina (Pavlína Řezáčová group) Structure, and Activity Guided Drug Design of 7 Designation Cyclic	Structural Studies Of Rhizobium Etli Inducible Asparaginase
Structure- and Activity-Guided Drug Design of 7-Deazapurine Cyclic Dinucleotide Analogues Activating Stimulator of Interferon Genes	Mutants
(STING) Receptor	17:15
()	Paula Fröling (Manfred Weiss group)
10:00	Structural analysis of metabolic binding partners of SuhB
Maria Kehr (Clemens Steegborn group)	
Structural studies on second generation soluble adenylyl cyclase	17:30
inhibitors and characterization of a putative ATPase domain	Tim B. Garbers (Ralf Ficner group) Crystallographic fragment screen on the c-di-AMP synthesizing
10:15 Coffee, tea, refreshment	enzyme CdaA Dominic
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10:45	17:45
Andrea Smith (Pavlína Řezáčová group)	Mark Kriegel (Yves Muller group)
New protein reactive centres against aspartic proteases	The implementation of explicit water molecules in side chain packing algorithms for protein design
	18:00
10:50	Florian Grau (Cytiva)
Tingting Wang (Markus Wahl group) Structural basis of promoter melting in Spirochaeta africana	ÄKTA go™—Redefining Routine Protein Purification
on actural basis of promoter meiting in spirothaeta afficana	18:15 Dinner
10:55 Felix Hennersdorf (Rigaku)	
Felix Hennersdorf (Rigaku) Rigaku Advances in X-ray and Electron Crystallography	
5	
11:05	
Rastislav Ošťádal (ThermoFisher Scientific)	
Tundra, an affordable microscopy for sample screening to high	
resolution structures	
11:25 HEC24 lecture	
Prof. Dr. Kay Diederichs (University of Konstanz, Germany)	
A better understanding of X-ray data quality indicators	
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12:30 Lunch	

Friday, September 23	Saturday, September 24
evening	morning
19:45-21:00 Session V NUCLEASES AND RECEPTORS Chairs: Christian Roth, Markus Wahl	9:30-11:00 Session VI STRUCTURE DETERMINATION and MOLECULAR MECHANISM - Postdoc Talks
19:45 Linh H. Tran (Milosz Ruszkowski/Mariusz Jaskolski group)	Chairs: Michael Lammers, Miriam Linnert
3D Domain Swapping Dimerization of the Receiver Domain of Cytokinin Receptor CRE1 From Arabidopsis thaliana and Medicago truncatula 20:00	9:30 Sergio Romero-Romero (Birte Hoecker group) Navigating the structural and stability landscape of de novo TIM barrels by protein design and engineering
Fabian Pohl (Norbert Straeter group) ADGRB2 and its Resistance to Autoproteolysis 20:15	9:45 Abibe Useini (Norbert Straeter group) Interference of environmental compounds with PPARgama
Kristýna Adámková (Jan Dohnálek group) Structural analysis of S1-like nuclease from opportunistic biofilm dwelling pathogen Stenotrophomonas maltophilia 20:30	10:00 Alaa Shaikhqasem (Milton T. Stubbs group) Structure determination of a protein-peptide complex using microcrystal electron diffraction
Philipp Galuska (Kristina Djinovic-Carugo group) Liquid-liquid phase separation and its role in Z-Disc formation	10:15 Coffee, tea
20:45 Katarzyna Krakowska (Matthias Bochtler group) Structural analysis of the Bisl family modification dependent restriction endonucleases 20:50	10:40 Anton Slyvka (Matthias Bochtler group) Activity and structure of human (d)CTP specific deaminase CDADC1 10:55 Gert Weber (Manfred Weiss group)
Blanka Husťáková (Jan Dohnálek group) Crystallographic study reveals an unexpected substrate for S1-P1 nuclease	Structures of a DYW domain shed first light on a unique plant RNA editing regulation principle
20:55 Jakub Hrubý (Jan Dohnálek group) Effects of the Zn(II) to Cd(II) Exchange on the Structure and Activity of S1 Nuclease	11:00 Radomír Kužel Hybrid congress IUCr-25 in Prague 2021 - statistics of attendance of bio-crystallographic lectures and sessions
21:10 HEC committee meeting	11:10 Michael Lammers Announcement of HEC25
	11:20 HEC prizes and closing remarks

11:30 Lunch

21:10 Bar