Scientific Program

Friday May 9th 2014

15:00 - 15:15 Opening: Jiri Vondrasek IOCB AS CR

Invitation: Zdeněk Hostomsky, IOCB AS CR director

Session 1. Protein-Protein Interactions

Chairman: Chris Chipot

1.1 15:15-16:00 A. Keith Dunker

Disordered Protein and Developmental Biology

1.2 16:00-16:45 Alexander Wlodawer

Plant proteins with medically important properties: structural studies of three members of the -trefoil family that function as serin

protease inhibitors or as lectins

16:45-17:00 Coffee break

1.3 17:00 - 17:45 Torsten Schwede

Comparative protein quaternary structure modelling using evoluti

onary interaction fingerprints

1.4. 17:45-18:10 Moran Jerabek-Willemsen

MicroScale Thermophoresis: Interaction analysis and beyond

18:15-20:00 Welcome drink, dinner

Saturday May 10th, 2014

Session 2. Interactions within proteins and Interactions of Proteins with ligands

Chairman: Mikael Oliveberg

2.1 8:30-9:15 Nikolay Dokholyan

Controlling allosteric networks in proteins

2.2 9:15-10:00 Jacqueline Matthews

Selectivity and synergy in binding by modular linear motifs

PPS selected talk

10:00 – 10:30 Kvido Stříšovský

Structural basis of rhomboid intramembrane protease specificity and mechanism revealed by X-ray crystallographic analysis of

rhomboid:substrate-peptide complexes

10:30 - 11:00 Coffee break

Scientific Program

2.3 11:00-11:45	Modesto Orozco Functional aspects of protein dynamics
2.4 11:45-12:30	Vladimir Sklenar Intrinsically Disordered Proteins – Atomic Resolution Characterization of Transient Interactions
2.5 12:30-13:15	Ora Schueler-Furman Peptide-mediated interactions: characterization, modeling and manipulation
13:15-14:30	Lunch

Session 3. Protein-Protein Interactions

Chairman Jane Dyson		
3.1 14:30-15:15	Neil Ferguson High resolution studies of the molecular handshake between a disordered viral protein and its human binding-partner	
3.2 15:15 -16:00	Peter Wright Functional interactions of intrinsically disordered proteins in dyna- mic signaling networks	
3.3 16:00-16:45	Chris Chipot Efficient determination of protein-protein standard binding free energies with a computational microcalorimeter	
16:45-17:10	Coffe break	
3.4 17:10-17:55	Tomas Obsil 14-3-3 proteins and mechanisms of their functions	
3.5 17:55-18:35	Richard Stefl Dynamic recruitment of processing factors to the site of transcription.	
19:30 - 23:00	Poster Session	

Scientific Program

Sunday May 11th, 2014

Session 4. Protein aggregates Chairman Peter Wright		
4.1 8:30-9:15	B. Montgomery Pettitt Aggregation, collapse and disorder: Model systems	
4.2 9:15-10:00	Mikael Oliveberg In-cell thermodynamics	
PPS selected talk		
10:00-10:30	Lajos Kalmar Functional evolutuon of intrinsically disordered proteins	
10:30-10:50	Coffee break	
4.3 10:50 -11:35	Michele Vendruscolo Characterisation of Protein Dynamics by Combining NMR Spectr copy and Molecular Dynamics Simulations	
4.4 11:35- 12:20	Dana Reichmann Unfoldomics of the cellular stress response: How do Intrinsically disordered chaperones work?	

Session 5. Protein - Nucleic Acid Interactions

Lunch

Chairman	Michal	011	and	FILEON	-
Chairman	wiichei	e v	enu	LUSCO	U

12:20-13:30

Chairman Michele Vendruscolo		
5.1 13:30-14:15	Edward N. Trifonov Strong nucleosomes - towards major revision of views on chromatin	
5.2 14:15-15:00	Janusz Bujnicki 3D Modeling of protein-RNA complex structures	
5.3 15:00 - 15: 45	Jane H Dyson Dynamics and specificity in protein-nucleic acid interactions.	
15:45 - 16:30 16:45 - 18:00 18:00 - 21:00	General discussion and concluding remarks Villa Lanna - Prague Castle and Prague Castle Gardens Walking Tour Conference dinner at Vila Richter (Prague Castle vineyard)	

Speakers of the 3rd PPS 2014

Jane DYSON

(The Scripps research Institute, USA)

Peter WRIGHT

(The Scripps research Institute, USA)

A. Keith DUNKER

(Indiana University, USA)

Dana REICHMANN

(The Hebrew University, Israel)

Modesto OROZCO

(IRB Barcelona, Spain)

Jacqueline MATTHEWS

(University of Sydney, Australia)

Nikolay DOKHOLYAN

(University of NC, Chapel Hill, USA)

Chris CHIPOT

(University of Illinois, USA)

Mikael OLIVEBERG

(Stockholm University, Sweden)

Janusz BUJNICKI

(IMCBIn Warsaw, Poland)

Michele VENDRUSCOLO

(Cambridge University, UK)

Alex WLODAWER

(NCI, USA)

Tomas OBSIL

(Charles University, Prague, CZ)

B. Montgomery PETTITT

(University of Texas, USA)

Edward TRIFONOV

(University of Haifa, Israel)

Richard STEFL

(Masaryk University, Brno, CZ)

Neil FERGUSON

(UCD Dublin, Ireland)

Vladimir SKLENAR

(Masaryk University, Brno, CZ)

Torsten SCHWEDE

(Universitat Basel, Switzerland)

Ora SCHUELER-FURMAN

(Hebrew University, Jerusalem, Israel)