Programme

25th Rhine-Knee Regional Meeting on Crystallography of Biomacromolecules

Day 1: Wednesday, September 28th, 2011

15:30 - 17:00	Registration (Reception and Foyer)
17:00 - 18:00	Welcome apero and general information from Campus Sursee (Foyer)
18:00 - 19:30	Dinner (Restaurant II Mercato)
19:40 - 19:50	Welcome address (Seminar room 408) - Guido Capitani & Vincent Olieric
19:50 - 21:10	Session 1 - Methods in Crystallization and Crystallography - Chair: Guido Capitani
	Jérôme Basquin , <i>MPI Munich</i> Crystallization of macromolecular complexes : use of limited proteolysis as a rational tool in construct design
	Armin Ruf, Roche Evaluation of protein binders as crystallization facilitators
	Mareike Kurz, <i>University of Zurich</i> The CrystalHarp™, an advanced high throughput capillary plate for protein crystallization
	Florence Pojer, EPFL Protein crystallography core facility of EPFL
	Sandro Waltersperger, SLS PSI The versatile MX-beamlines at the Swiss Light Source, recent developments and their benefits on data quality
21:10 - 21:20	Pause
21:20 - 22:10	Keynote Lecture - Kay Diederichs, University of Constance - Making the most of your data
22:10 - 24:00	Networking (Bistro La Piazza)

Day 2: Thursday, September 29th, 2011

07:00 - 08:30	Breakfast (Restaurant Il Mercato)
08:40 - 10:00	Session 2 - New structures - Chair: Günter Fritz
	Michael Buch, University of Tübingen
	Structural and functional analysis of the major capsid protein of murine polyomavirus, VP1
	Justine Maillot, IGBMC Strasbourg
	Methylation by CARM1: A structure based approach to design inhibitors and peptide mimics
	Volker Niemann, University of Tübingen Structural analysis of NreA of Staphylococcus carnosus
	Karin Betz, University of Constance
	Structural studies on the incorporation of an artificial base pair by KlenTaq DNA polymerase
	Kerstin Reiss, University of Tübingen Interaction between the T1L reovirus attachment protein and its carbohydrate receptor
10:00 - 10:30	Znüni Break (<i>Bistro La Piazza</i>)
10:40 - 12:00	Session 3 - Challenging structures - Chair: Meitian Wang
	Bernhard Spingler, University of Zurich Metal complexes in macromolecular X-ray structures: Which challenges can you expect?
	Lada Sycheva, <i>EPFL</i> Crystal structure of the product of gene 131 of the <i>Pseudomonas aeruginosa</i> bacteriophage φKZ
	Günter Fritz, University of Freiburg Structure determination of NQR, a redox-driven sodium pump from Vibrio cholerae
	Julius Rabl, ETHZ Crystal structure of the eukaryotic 40S ribosomal subunit in complex with initiation factor 1
	Nikolaus Schmitz, ETHZ The crystal structure of the signal recognition particle in complex with its receptor
12:00 - 13:20	Lunch (Restaurant II Mercato)
13:30 - 17:30	Excursion - Guided tour of Lucerne and of the Swiss Museum of Transport
	13:30 : Departure by bus to Lucerne
	14:15 : Start of the city tour
	15:00 : Walk towards the Swiss Museum of Transport
	15:30 : Arrival at the Swiss Museum of Transport
	16:45 : Departure by bus to Campus Sursee
	17:30 : Arrival at Campus Sursee

18:00 - 19:20	Session 4 - Complementary techniques - Chair : David Sargent
	Philippe Dumas, IBMC Strasbourg
	Using Mathematica, a software with symbolic capabilities, for doing crystallography
	Kaisa Kisko, BMR PSI
	Combining low-resolution small-angle X-ray scattering with high resolution crystallographic information for understanding vascular endothelial growth factor receptor activation
	Eric Ennifar, IBMC Strasbourg
	The use of Isothermal Titration Calorimetry to increase success in crystallization of macromolecular complexes
	Sasa Bjelic, BMR PSI
	Towards quantifying protein-protein interactions using synchrotron-based oxidative footprinting
	Florian Dworkowski, SLS PSI
	Complementing macromolecular crystallography with <i>in-situ</i> spectroscopy at the SLS
19:20 - 20:50	Dinner (Restaurant II Mercato)
21:00 - 22:20	Session 5 - New Structures and Imaging - Chair: Eric Ennifar
	Dominik Frei, BMR PSI
	Structural Basis of Haptocorrin Ligand Binding
	Arnaud Goepfert, University of Basel
	FIC proteins: these potent AMPylators are regulated by intra- or intermolecular active site obstruction
	Bärbel Blaum, University of Tübingen
	Structural studies of polyomavirus capsid proteins with sialylated receptors
	Tatiana Latychevskaia, University of Zurich
	Imaging individual biological molecules with coherent low-energy electrons
	Mirna Saliba, University of Zurich
	Micro-lens assisted fourier transform holography
22:20 - 24:00	Networking (Bistro La Piazza)

Day 3: Friday, September 30th, 2011

07:00 - 08:30	Breakfast (Restaurant II Mercato) and check-out (Reception)
08:40 - 10:20	Session 6 - Macromolecular crystallography in industry - Chair: Vincent Olieric
	Santina Russo, eXpose
	Enhancing the cycle, data collection service at the SLS
	Vernon Smith, Bruker
	The new D8 systems for macromolecular crystallography
	Daniel Frey, Esbatech
	Crystallization and structural analysis of scFv-target complexes
	Sascha Gutmann, Novartis
	Structural biology in drug discovery, a case study
	Lars Prade, Actelion
	Structural biology in pharma
10:20 - 10:50	Znüni Break (Bistro La Piazza) and group picture
11:00 - 11:50	Keynote Lecture - Clemens Schulze-Briese, Dectris - Better data from real crystals
11:50 - 12:00	Concluding remarks and 26th Regio meeting announcement
12:00 - 14:00	Lunch (Restaurant II Mercato) and departure