



Current Challenges in Integrated Structural Biology

Program

June 19-20 2014

Day 1: Thursday, June 19th

12.00 - 14.00 Lunch buffet and Registration

14.00 Welcome

14:00 - 14:35 Opportunities for future multi-resolution integration at the CBI. **Bruno Klaholz**

14.45 - 15.20 Imaging cells, viruses and protein complexes with 3D electron microscopy: From structure to mechanism. **Sriram Subramaniam**

15.30 - 16.05 Geometry of the nucleus and gene regulation
A single-molecule and super-resolution microscopy approach. **Ignacio Izeddin Aguirre**

16.15 – 16.45 Coffee break

16.45 - 17.20 Latest developments in correlative and cryo-TEM workflow solutions. **Sacha de Carlo**

17.30 - 18.05 Large volume imaging of cellular ultrastructure using (cryo-) FIB-SEM microscopy. **Andreas Schertel**

18.15 - 19.30 Poster session & visit of the CBI facilities

Day 2: Friday, June 20th

9.00 – 9.35	Dynamic macromolecular complexes at high resolution by single particle cryo-EM.	Holger Stark
9.45 – 10.20	Using NMR and EPR to decipher the molecular mechanisms of translation regulation.	Frédéric Allain
10.30 - 11.00	<i>Coffee break</i>	
11.00 - 11.35	New developments in ITC to address biological problems.	Philippe Dumas
11.45 - 12.20	Hybrid pixel X-ray detectors for advanced life science applications.	Clemens Schulze-Briese
12.30 - 14.00	<i>Lunch buffet</i>	
14.00 - 14.35	In situ, multi-crystal, high frame-rate: New trends in X-ray crystallography data collection.	Gwyndaf Evans
14.45 - 15.20	Structural basis for transcriptional pausing in bacteria.	Albert Weixlbaumer
15.20 - 16.20	Selected posters: 12min + 3min discussion	
	Transient states in heme peroxidases: a multidisciplinary approach	Cecilia Casadei
	Structure and mechanism of the bacterial amyloid secretion channel CsgG	Imke Van den Broeck
	High-precision correlative fluorescence and electron cryo microscopy using two independent alignment markers	Pascale Schellenberger
16.20 – 18.00	<i>Coffee break, specific discussions, posters, visits</i>	