

**STRUCTURAL CHARACTERIZATION OF MACROMOLECULAR
COMPLEXES, GRENOBLE, MAY 15-20, 2006**

PROGRAMME

Monday 15 May

Expression Strategies <i>EMBL Seminar Room Chair: Darren Hart</i>		
09:00-9.05	Welcome	Christoph Müller EMBL Grenoble
09:05-9.50	Practical lessons from a high through-put protein production pipeline (many clones make light work?)	Nick Berrow Oxford University
09:50-10:35	Tools for engineering soluble proteins and finding folded protein domains.	Stephanie Cabantous Los Alamos National Lab.
10:30-11.00	Coffee	
11:00-11.45	Baculovirus expression: history and current practice.	Ian Jones University of Reading
11:45-12.30	High output mammalian protein production; Large scale transient expression in HEK293 cells.	Wieger Hemrika University of Utrecht
12:30-13:45	Lunch	
13:45-14:15	ESRF safety training	
14:15-18:00	Practicals	
19:00-20:00	Dinner	
20:00-21:00	Student presentations (EMBL Seminar Room) followed by refreshments	Bus to Hotel Bastille at 21.45

Tuesday 16 May

Isolation of Functional Complexes <i>EMBL Seminar Room Chair: Carlo Petosa</i>		
09:00-09:45	Production of protein complexes	Song Tan Penn State University
09:45-10:30	"Protein/RNA complexes"	Kiyoshi Nagai MRC-LMB Cambridge
10:30-11:00	Coffee	
11:00-11:45	Identification, overproduction and characterization of yeast protein complexes using the TAP method	Bertrand Seraphin CNRS Gif-sur-Yvette
11:45-12:30	"Production of RNA Polymerase II complexes"	Michela Bertero University of Munich
12:45-14:00	Lunch	
14:00-18:00	Practicals	
19:00-20:00	Dinner	
20:00-21:00	Student presentations (EMBL Seminar Room) followed by refreshments	Bus to Hotel Bastille At 21.45

Wednesday 17 May

Characterization of Macromolecular Complexes <i>EMBL Seminar Room Chair: Winfried Weissenhorn</i>		
09:00-09:45	Structure analysis of biomacromolecular solutions by small-angle X-ray and neutron scattering	Dimitri Svergun EMBL Hamburg
09:45-10:15	Analytical ultracentrifugation for the study of biological macromolecules	Christine Ebel IBS, Grenoble
10:15-10:45	Isothermal titration calorimetry in the study of protein complexes	Vladimir Rybin EMBL Heidelberg
10:45-11:15	Coffee	
11:15-11:45	"Mass spectrometry for macromolecular complexes"	Min Zhou Cambridge University
11:45-12:15	Tandem affinity purification of protein complexes: lessons from a genome-wide screen?	Anne-Claude Gavin EMBL Heidelberg
12:15-12:45	"Modelling protein interactions"	Patrick Aloy IRB-PCB, Barcelona
12:45-14:00	Lunch	
14:00-18:00	Practicals	
18:00-19:00	SAXS demonstration	Dimitri Svergun
19.30-20.00	Dinner	
		Bus to Hotel Bastille At 20:30

Thursday 18 May

Electron microscopy <i>EMBL Seminar Room Chair: Guy Schoehn</i>		
09:00-09:45	"Single particle electron microscopy"	Bettina Boettcher EMBL Heidelberg
09:45-10:30	Structural insights into the splicing machinery	Holger Stark MPI Göttingen
10:30-11:00	Coffee	
11:00-11:45	Cellular cryo-electron tomography	Achilles Frangakis EMBL Heidelberg
11:45-12:30	Rigid body and flexible fitting of biophysical data	Willy Wriggers U. of Texas
12:30-14:00	Lunch	
14:00-18:00	Practicals	
19:00-20:00	Dinner	
20:00-21:00	"Studying macromolecular complexes by NMR"	Michael Sattler EMBL Heidelberg

Friday 19 May

Crystallization/crystallography of macromolecular complexes <i>EMBL Seminar Room Chair: Elspeth Gordon</i>		
09:00-09:30	High-throughput crystallization methods	Jose-Antonio Marquez EMBL Grenoble
09:30-10:15	Crystallization Strategies	Song Tan Penn State University
10:15-10:45	Coffee	
10:45-11:30	"Combining X-ray & EM"	Jorge Navaza IBS Grenoble
11:30-12:15	"Tips and tricks for the structural determination of macromolecular complexes"	Luca Pellegrini Cambridge University
12:15-12:45	Rabies virus NP protein	Winfried Weissenhorn EMBL Grenoble
12:30-13:30	Lunch	
14:00-18:00	Practicals	
18.30	Course Banquet (Le Sappey)	

Saturday 20 May

X-Ray structure analysis <i>EMBL Seminar Room Chair: Christoph Müller</i>		
09:00-09:45	"Solving structures by X-ray crystallography"	Gordon Leonard ESRF Grenoble
09:45-10:30	"Structural biology of large complexes"	Stephen Cusack EMBL Grenoble
10:30-11:00	Final remarks	Christoph Müller EMBL Grenoble
11:00-12:00	Coffee	