

## Advanced Diffraction Techniques for Biology (ADTB) – 2019

Day	Time		Location
Tuesday 19 Nov.	09h00 - 09h30	Welcome & Coffee break	IBS, main lobby
	09h30 - 10h30	Lecture Crystallography basic course - D. Housset (IBS)	IBS, seminar room
	10h45 - 12h00	Lecture Opening presentation – TBD	IBS, seminar room
	12h00 - 12h15	Practical aspects of the workshop - J.-L. Ferrer & M. Elzo-Aizarna (IBS)	IBS, seminar room
	12h15 - 14h00	<i>Group photo &amp; Lunch</i>	EPN canteen
	14h00 – 15h00	Lecture Kinetic crystallography: from cryo-trapping to time-resolved XFEL studies - M. Weik (IBS)	IBS, seminar room
	15h00 – 16h00	Lecture TBD – G. Leonard (ESRF)	IBS, seminar room
	16h00 – 16h30	<i>Coffee break</i>	IBS, main lobby
	16h30 – 17h15	Lecture Macromolecular nano-crystallography using X-ray Free Electron Lasers – J.-P. Colletier (IBS)	IBS, seminar room
	17h15 – 18h00	Lecture Last advance in sample handling and data-collection in Serial Synchrotron Crystallography – N. Foos	IBS, seminar room
	19h30 - 22h00	<i>Welcome dinner</i>	Downtown
Wednesday 20 Nov.	08h40 – 09h25	Lecture In situ diffraction on FIP2-BM07: from initial structure to ligand screening - J.-L. Ferrer (IBS)	IBS, seminar room
	09h25 – 10h10	Lecture In situ diffraction to facilitate ligand screening – G. Labesse (CBS)	IBS, seminar room
	10h10 – 10h40	<i>Coffee break</i>	IBS, main lobby
	10h40 – 11h50	Lecture Electron diffraction of protein nano-crystals - D. Housset (IBS)	IBS, seminar room
	11h50 - 13h00	<i>Lunch</i>	EPN canteen
	13h00 - 13h40	Lecture Automated crystallography pipelines for small molecule screening – J.A. Marquez (EMBL Grenoble)	IBS, seminar room
	13h40 - 14h30	Lecture Practical Physics Behind Growing Crystals of Biological Macromolecules – TBD	IBS, seminar room
	14h30 - 15h20	Lecture Protein crystallization by the counter-diffusion techniques - J. Gavira (CSIC, Madrid)	IBS, seminar room
	15h20 - 16h00	Lecture Current Challenges of Obtaining Crystals for Bio-Crystallography - M. Spano (IBS)	IBS, seminar room
	16h00 - 16h30	Lecture <i>coffee break</i>	IBS, main lobby
	16h30 - 17h10	Lecture Protein crystallography using neutrons: why and how - Z. Fisher (ESS, Lund)	IBS, seminar room
17h10 - 17h50	Lecture Instruments for neutron crystallography - E. Oksanen (ESS, Lund)	IBS, seminar room	
17h50 - 18h30	Lecture Data processing and model refinement using neutron diffraction data - N. Coquelle (ILL)	IBS, seminar room	
19h00 - 20h00	<i>Dinner</i>	EPN canteen	
Thursday 21 Nov.	09h00 – 10h45	Practical Crystallization and diffraction (*)	ILL, ESRF, IBS
	10h45 – 12h30	Practical Crystallization and diffraction (*)	ILL, ESRF, IBS
	12h30 - 14h00	<i>Lunch</i>	EPN canteen
	14h00 – 15h45	Practical Crystallization and diffraction (*)	ILL, ESRF, IBS
	15h45 – 17h30	Practical Crystallization and diffraction (*)	IBS
	19h00 - 20h00	<i>Dinner</i>	EPN canteen
Friday 22 Nov.	08h30 – 10h30	Practical Practicals: Neutron diffraction data processing (N. Coquelle)	CIBB, room 021
	10h30 – 10h45	<i>Break</i>	
	10h45 – 12h45	Practical Practicals: X-ray diffraction data processing (D. Cobessi)	CIBB, room 021
	12h45 - 14h00	<i>Lunch</i>	EPN canteen
	14h00 – 16h00	Practical Practicals: Electron diffraction data processing (D. Housset)	CIBB, room 021
	16h00 – 16h15	<i>Break</i>	
16h15 – 18h00	Visit of the EMBL and IBS platforms		

(\*) 1 - Neutron diffraction (N. Coquelle); 2 - crystallization (M. Spano); 3 - Dry coating (G. Labesse, J-F Guichou, F. Borel); 4 - Electron diffraction (IBS/MEM team)