

HSC15 - HERCULES Specialised Courses: Synchrotron X-ray imaging for Biology										
	Monday, 16 September	Tuesday, 17 September	Wednesday, 18 September	Thursday, 19 September	Friday, 20 September					
8:00	REGISTRATION		Practicals - 8h30-12h30	Practicals - 8h30-12h30		8:00				
8:30	Introduction José BARUCHEL (ESRF, Grenoble)		Coherent Diffraction Imaging ID10	Coherent Diffraction Imaging ID10		8:30				
9:00	Synchrotron X-ray tomographic Imaging for biology Paul TAFFOREAU (9h00 - 10h30)		Medical imaging ID17	Medical imaging ID17		Introduction to X-ray fluorescence and spectroscopic image processing	9:00			
9:30		X-ray imaging/Tomography BM5	X-ray imaging/Tomography BM5	9:30						
10:00		X-ray imaging/tomography ID19	X-ray imaging/tomography ID19 (Tafforeau)	10:00						
10:30	COFFEE/ TEA 10h30 - 11h00	COFFEE/ TEA 10h30 - 11h00			COFFEE/ TEA 10h30 - 11h00	10:30				
11:00	Lensless biological imaging Coherent Diff. Imaging - Ptychography Andreas MENZEL (11h00 - 12h30)	X-ray fluorescence imaging for Biology Joanna COLLINGWOOD (11h00 - 12h30)	Diffraction Imaging ID13	Diffraction Imaging ID13	Armando SOLE Jerome KIEFFER (9h00 - 12h30)	11:00				
11:30						11:30				
12:00			Spectroscopic imaging ID21	Spectroscopic imaging ID21		12:00				
12:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	12:30				
13:00						Synchrotron X-ray medical Imaging Paola COAN (13h30 - 15h00)	Practicals - 14h00-18h00	Practicals - 14h00-18h00	Lecture special topics X-ray phase contrast imaging of biological specimens with tabletop synchrotron radiation Zulfikar NAJMUDIN (13h30 -15h00)	13:00
13:30										
14:00	Imaging scattering Bridget MURPHY (14h00 - 15h15)		Coherent Diffraction Imaging ID10	Coherent Diffraction Imaging ID10	COFFEE/ TEA	14:00				
14:30	COFFEE/ TEA	COFFEE/ TEA	X-ray imaging/Tomography BM5	X-ray imaging/Tomography BM5		14:30				
15:00			TUTORIAL Tomographic reconstruction biological sample data processing	Soft X-ray microscopy sample preparation, data processing 3D reconstruction Eva PEREIRO (15h30 - 17h00)	X-ray imaging/tomography ID19	X-ray imaging/tomography ID19	Lecture special topics X-ray imaging in biology: perspective at X-FEL Filipe MAIA (15h30 -17h00)	15:00		
15:30	Diffraction Imaging ID13	Diffraction Imaging ID13			Conclusions	15:30				
16:00	Pei DONG Cécile OLIVIER (15h30 - 18h30)	Impact of X-ray imaging techniques in biology Klaus GIEWEKEMEYER (17h00 - 18h30)				Spectroscopic imaging ID21	Spectroscopic imaging ID21	Farewell cocktail in the ESRF entrance hall Dinner at ESRF-ILL canteen	16:00	
16:30					DINNER ESRF-ILL canteen	DINNER Restaurant in Grenoble	16:30			
17:00	Wine and Cheese Poster Session in the (coffee) cafeteria 18h30 - 20h00						17:00			
17:30							17:30			
18:00						18:00				
18:30						18:30				
19:00	DINNER ESRF-ILL canteen					19:00				

LECTURES WILL TAKE PLACE IN THE ESRF AUDITORIUM - TUTORIALS IN THE ESRF COMPUTER TRAINING ROOM MF-1-06