LIGHT MICROSCOPY COURSE

PROGRAMME - AUGUST 2015



Tuesday 18 th of August		
09:00 - 09:45	Light, Resolution and Magnification	15.2.18
09:45 - 10:45	The Microscope, Conjugate Planes and Contrast techniques	15.2.18
10:45 - 11:00	Coffee break	
11:00 - 11:20	Peter Evennett – Abbe's diffraction experiments (Video)	15.2.18
11:20 - 12:50	Practical 1 (rotations - 30min each)	15.2
	 Aperture & Conjugated planes on Optical bench (LP) Resolution (THB) Köhler illumination and conjugated planes (CP) 	
12:50 - 13:30	Lunch break	
13:30 - 14:15	Introduction to fluorescence	15.2.18
14:15 – 14:30	Coffee break	
14:30 – 15:00	Light sources, detectors and principles of Confocal microscopy	15.2.18
15:00 – 16:00	Practical 2 Intro to ZEN, setting Köhler and DIC on LSM (Practical − CFIM) LP LSM700 THB LSM780 CP LSM710	CFIM
Wednesday 19 th of August		
09:00 – 9:45	Laser scanning confocal microscopy Colocalization analysis – important considerations	15.2.18
9:45 – 11:00	Practical considerations before image acquisition Live Imaging strategies	15.2.18
11:00-11:15	Coffee break	
11:15 – 12:45	Practicals 3, rotation 1 (rotations - 90min each)	CFIM
	 Testing resolution and optimizing dynamic range LP, LSM710 Acquiring confocal data – multi channel design CP, LSM780 Spinning Disk and TIRF THB, Cell Obs 	
12 :45-13 :30	Lunch break	
13 :30-15 :00	Practical 3, rotation 2 - CFIM	CFIM
On the run	Coffee break	
15 :00 - 16:30	Practical 3, rotation 3 - CFIM	CFIM