

LIGHT MICROSCOPY COURSE

PROGRAMME – JANUARY 2025



Monday 20 th of January		
09:00 - 09:45	Light, Resolution and Magnification (CP)	15.2.18
09:45 - 10:45	The Microscope, Conjugate Planes and Contrast techniques (CP)	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 1-3 - 30min each) <ul style="list-style-type: none"> ▸ Aperture & Conjugated planes on Optical bench ▸ Resolution ▸ Köhler illumination and conjugated planes 	15.2
12:50 - 13:30	Lunch break	
13:30 - 14:15	Introduction to fluorescence (THB)	15.2.18
14:15 - 14:30	Coffee break	
14:30 - 15:00	Principles of Confocal microscopy (THB)	15.2.18
15:00 - 16:00	Practical 2: Intro to ZEN, setting Köhler and DIC on a confocal laser scanning microscope (LSM710, LSM780 and 700)	CFIM
Tuesday 21 st of January		
09:00 - 9:45	Laser scanning confocal microscopy (CP) Colocalization analysis – important considerations (CP)	15.2.18
9:45 - 11:00	Practical considerations before image acquisition (CP) Live Imaging strategies (THB)	15.2.18
11:00-11:15	Coffee break	
11:15 - 12:45	Practical 3 (rotation 1) Testing resolution and optimizing dynamic range Acquiring confocal data – multi channel design Spinning Disk for live imaging	CFIM CP AS/KK THB
12 :45-13 :30	Lunch break	
13 :30-15 :00	Practical 3 (rotation 2)	CFIM
On the run	Coffee break	
15 :00 - 16:30	Practical 3 (rotation 3)	CFIM