

PROGRAMME – JANUARY 2015



Tuesday 20th of January

09:00 - 09:45	Light, Resolution and Magnification
09:45 - 10:45	The Microscope, Conjugate Planes and Contrast techniques

Coffee break

11:00 - 11:20	Peter Evennett – Abbe's diffraction experiments (Video))
11:20 - 12:50	<i>Practical 1 (3 rotations - 30min each)</i>

- Aperture & Conjugated planes on Optical bench
- Resolution
- Köhler illumination and conjugated planes

Lunch break

13:30 - 14:15	Introduction to fluorescence
14:15 – 15:00	Light sources, detectors and principles of Confocal microscopy
15:00 – 16:00	<i>Practical 2</i> Intro to ZEN, setting Köhler and DIC on LSM

Wednesday 21st of January

09:00 – 9:45	Laser scanning confocal microscopy Colocalization analysis – important considerations
9:45 – 11:00	Practical considerations before image acquisition Live Imaging strategies

Coffee break

11:15 – 12:45	<i>Practical 3, rotation 1</i> <ul style="list-style-type: none"> • Testing resolution and optimizing dynamic range • Acquiring confocal data – multi channel design • Spinning Disk and TIRF
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Lunch break

13:30–16:30	<i>Practical 3, rotations 2 and 3</i>
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