

LIGHT MICROSCOPY COURSE

PROGRAMME – AUGUST 2014



DAY 1 - Monday 11th of August

Lectures – room 15.2

- 09:00 – 09:45** Light, Resolution and Magnification
- 9:45 – 10:45** The Microscope, Light Path and Conjugate Planes

10:45 *Coffee break*

Practicals 1 (rotations - 30min each) – 15.2

- Aperture – swinging apertometer (LP)
 - Resolution (THB)
 - Köhler illumination and conjugated planes (CP)
- 12:30 – 13:00** Introduction to fluorescence

DAY 2 - Tuesday 12th of August

Lectures – room 15.2

- 09:00 – 10:00** Confocal microscopy
(Principle, light sources, detectors, PSF and digital resolution)
- 10:00 – 11:00** Introduction to advanced imaging applications
(Live imaging, TIRF, FRET/FRAP, Spectral Imaging)

11:00-11:15 *Coffee break*

Practicals 2 (rotations - 30min each) - CFIM

- Köhler illumination / DIC on LSM (LP)
- Image acquisition on a Confocal – considerations (CP)
- Spinning disk (THB)