



Zeiss LSM800 Confocal Laser Scanning Microscope

Stand	Axio Observer Z.1 Inverted microscope
Software	ZEN Blue 2.6
Lasers	405, 488, 561 and 640 nm solid state laser diodes
Detectors	2 GaAsP PMT detectors, 1 transmitted light detector
Epifluorescence light source & filters (for eyepiece viewing)	HXP and halogen lamps with DAPI (49), GFP (10), RFP (20) and polarised light filters
Compatible sample types	Slides, 35mm dishes, multi-well plates (0.17 mm coverslips or 0.17 mm glass-bottomed plates strongly recommended)
Objective lenses	10x/0.3 Neofluar, 20x/0.8 Plan Apochromat, 40x/1.3 oil Plan Apochromat, 63x/1.4 oil Plan apochromat
Live imaging capability	Live cell imaging capability with CO ₂ and temperature controlled environment and Definite Focus to maintain focal stability over time
Motorisation	XY and Z axes are motorised, including piezo stage insert for high-speed stack acquisition
Advanced microscopy features	ROI bleaching, FRAP, FRET, tile-scanning, multi-position, differential interference contrast (DIC), advanced workflows with experiment designer

This equipment is part of the CMR Advanced Bio-imaging Facility based at Charterhouse Square. This is a multi-user facility available to internal and external researchers; for access and information, please contact Dr Tom Nightingale (t.nightingale@qmul.ac.uk).