

EQUIPMENT ACCESS POLICY

MOLECULAR AND CELLULAR IMAGING CORE



1. Confocal Microscopes and Typical Applications:

a) **LSM 5 live Duoscan**, INDIMO 1080, Inverted Microscope, small stage incubator, piezo Focus, motorised stage, Laser lines: 405, 489, 561 nm

Applications: Live cell imaging, FRET, fast 3d imaging, FRAP

b) **LSM 510 Meta**, Blue Diode, Inverted Microscope, small stage incubator, motorised stage
Laser lines: 405, 458, 488, 514, 543, 633 nm

Applications: Live cell imaging, Imaging of immune stained cells and tissue, spectral imaging, FRET, 3d imaging, FRAP

c) **LSM 710**, Inverted Microscope, small stage incubator, piezo stage insert, hardware autofocus, Laser lines: 405, 458, 488, 514, 543, 561, 633 nm

Applications: Live cell imaging, spectral imaging, FRET, 3d imaging, FRAP

d) **LSM 710 NLO**, upright Microscope, water dipping lens, Oil immersion lens, Laser lines: 405, 458, 488, 514, 561, 594, 633 nm, pulsed and tuneable laser Chameleon Vision II 680-1080 nm

Applications: 3d imaging, deep tissue and intra vital imaging using 2 photon excitation, imaging of immune stained cells and tissue, spectral imaging, FRET.

2. Training/Supervision:

Training/Supervision requirements will be assessed by Brenton Cavanagh or Heiko Düssmann. This will be dependent on the individual's imaging requirements, instruments, training, and capabilities.

3. Charges:

Usage [hrs] ¹			Training/ Supervision	Service ²	Incubation	
day [8am-6pm]	night [6pm-8am]	weekend	per hour	per hour	N2/ hour	CO2/ hour
half day	whole night	whole day			€ 0.12	€0.12
€40	€40	€40	€60	€90		

1 An additional charge of €10 per h is required for the use of the Coherent Chameleon Vision II laser.

2 A service charge applies in cases where the imaging team perform measurements for a research group/project but will not be listed as co-authors on the project. This applies to a once off request where it is not practical to train a new user.

4. Bookings:

Bookings should be made in advance via email to microimaging@rcsi.ie. As a trained user you will have access to view availability of instruments within the RCSI-LAN. For technical questions you can also email Brenton Cavanagh (brentoncavanagh@rcsi.ie) or Heiko Düssmann (hduessmann@rcsi.ie) directly.

5. Payment and Cancellations:

Invoices will be issued to the research group/PI on a monthly basis. Cancellations must be made 1 day (24h) before the experiment was planned (Friday morning for weekend bookings). If appointments are missed or not cancelled in the allotted time frame, 50% of the costs will be charged.