

Leica DM5500B: Upright Wide field Video Microscope

Location: Bat. Archimed, C3M, room G-54



Capabilities :

- Suited for immunofluorescence, fixed samples mounted between slide and coverslip
- Imaging fluorophores from near UV to Far Red
- Transmission: phase contrast and polarisation

Equipment:

- Leica DM5500B
- Leica EL6000 external light source
- Camera Hamamatsu ORCA-ER
- Software: LAS AF

Filter cubes for eyepieces visualisation:

Cube	Fluorophores	Excitation wavelengths	Dichroic	Emission wavelength
A4	DAPI, Hoechst	BP 360/40	400	BP 470/40
L5	A488, GFP, FITC	BP 480/40	505	BP 527/30
N2.1	Phycoerythrin (PE)	BP 515-560	580	LP 590
TX2	A568, RFP, TxRed	BP 560/40	595	BP 645/75
Y5	A647, APC, Cy5	BP 620/60	660	BP 700/75

Warning: There is some cross talk between the TX2 and Y5 channels

Objectives:

Magnification	NA	type	immersion medium	WD (mm)	miscellaneous	Scale (bin 1)
10x	0.3	PL Fluotar	air	11	Ph1	645 nm/pixel
40x	1.0	PL Fluotar	oil	0.40	Ph2	161 nm/pixel
63x	1.25	PL Fluotar	oil	0.19	Ph3	102 nm/pixel
100x	1.3	PL Fluotar	oil	0.13	Ph3	65 nm/pixel