

Macro Fluo

Room : E1042 CBI

Microscope dedicated to episcopic fluorescence and diasopic transmission acquisitions equipped with two cameras (color and bw) and a manual Zoom Z16APO.

Note: Two different computers drive the two different cameras with dedicated softwares (most of the other equipments are shared between the 2 systems)

A) Epifluorescence (PC on the right)

Operating System

Windows 7pro 32-bits

Camera and software

Equipped with a QuantEM 512-512 BW camera (16 bits, 512x512; pixel 16um x16um; Photometrics) controlled by Micromanager software

Illumination

EL6000 (Metal Halid 120W lamp +optical fibers)

Motorized column

Driven by Smart touch

Zoom

Manual Z16 APO (0, 57 to 9,2x) -lens 1x-1,5x-2x

Objectives

Default objectives	Magnification	NA*	Working distance
Planapochromatic 2x	2x	0.23	39mm
Planapochromatic 5xLWD	5x	0.5	19mm

* at maximal optical zoom

Other planapochromatic objectives on demand 0.5x (WD 187mm) -1x.(WD 97mm)

Cube filters for epifluorescence

Fluorescence cubes	Excitation (nm)	Beam splitter (nm)	Emission (nm)
A4	BP 360/40	400	BP 470/40
L5	BP 480/40	505	BP 527/30
Y3	BP 545/40	565	BP 610/75
TX2	BP 560/40	595	BP 645/75

B) Transmitted light (PC on the left)

Operating System

Windows 7pro 32-bits

Camera and software

Equipped with a CoolSnap CF Color camera (12bits;1392x1040; pixel 6,45x6,45um; Photometrics) controlled by Coolsnap software.

Illuminations

Diascopic illumination automated base with led illumination and integrated Brightfield, Darkfield and Rottermann contrasts.

Episcopic illumination: leds (3x3 and variable positions)

Motorized column

Driven by Smart touch

Zoom

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