

**Zeiss Axiovert200M/Metamorph: Inverted Wide field Video Microscope**

**Location:** Bat. Archimed, C3M, room G-40



**Capabilities :**

- Live cell imaging in wide field fluorescence and brightfield
- Environmental chamber (temperature and CO<sub>2</sub>)
- Fast live imaging (down to 10 ms per image)
- Compatibility with many types of samples : Slides, MatTek, Labteck, Multiwell plates
- Multiposition timelapse acquisitions
- Imaging fluorophores from UV to Far Red

**Equipment:**

- Zeiss Axiovert200M inverted microscope
- HBO100 autoalignment source
- Camera Coolsnap HQ2
- Metamorph
- Märzhäuser motorized stage

**Filter cubes for eyepieces visualisation:**

Cube	Fluorophores	Excitation wavelengths	Dichroïc	Emission wavelength
Fs49	DAPI, Hoechst	BP 365	395	BP 445/50
Fs38	A488, GFP, FITC	BP 470/40	495	BP 525/50
Fs46	YFP	BP 500/20	515	535/30
Fs43	A568, RFP, TxRed	BP 545/25	570	BP 605/70
Fs50	A647, APC, Cy5	BP 640/30	660	BP 690/50

# Light Microscopy Core Facility



entre Méditerranéen de Médecine Moléculaire

Inserm U1065

## Objectives:

Magnification	NA	Type	immersion medium	WD (mm)	miscellaneous
20x	0.4	LD Achroplan	air	10.2 at cover glass 1.0	Ph2
40x	0.6	LD Achroplan	air	1.8 at cover glass 1.0	Ph2
63x	0.75	LD Achroplan	air	1.5 at cover glass 1.0	Ph2
40x	1.3	Plan Neofluar	oil	0.20	
100x	1.3	Plan Neofluar	oil	/	

## Scales:

Magnification	Scale (bin 1)	Field of View
20x	508 nm/pixel	707x528 $\mu\text{m}$
40x	256 nm/pixel	354x264 $\mu\text{m}$
63x	161 nm/pixel	225x167 $\mu\text{m}$
40x	254 nm/pixel	354x264 $\mu\text{m}$
100x	102 nm/pixel	141x106 $\mu\text{m}$