

Zeiss LSM880 + Airyscan fast module

Location

Campus Biotech - B304 Room 186.126

Microscope

Zeiss Axio Examiner upright + clearing equipment

Objectives

Magnification	NA	Immersion	WD (mm)
10X	0.45	dry	2.0
20X	0.80	dry	0.55
63X DIC	1.4	oil	0.19
20X	1.0	Clarity (corr)	5.6

Filter

For Halogen lamp:

Fluorophore	Filter	Excitation	Mirror	Emission
Dapi	Set 49	G 365	FT 395	BP 445/50
GFP	Set 38	BP 470/40	FT 495	BP 525/50
Rhodamin	Set 20	BP 546/12	FT 560	BP 607/80

For Lasers:

Excitation Filters (UV)	Excitation Filters (visible)	Airyscan Emission Beam Splitters
MBS 405	MBS 458	BP 420-480 + BP 495-550
MBS 445	MBS 458/514	BP 420-480 + LP 605
	MBS 458/543	BP 465-505 + LP 525
	MBS 488	BP 495-535 + LP 555
	MBS 488/543	BP 495-550 + LP 570
	MBS 488/543/633	BP 570-620 + LP 645
	MBS T80/R20	

Illumination

Laser diode 405 nm,

Lase Argon Multiline 458, 488, 514 nm;

Laser HeNe 543;

Laser HeNe 633 nm;

Halogen Lamp

Stage

Motorized

Detection

3 channel spectral detection with 1 GaAsP and 2 PMTs.

1 T-PMT (TL);

Airyscan (Fast module)

Application

Confocal fluorescence microscopy, high resolution imaging

FRET, FRAP

Spectral analysis and unmixing

Image on CLARITY tissue