

Olympus FV1000 Confocal Microscope

Location: CSC Room 32

Main features of System:

- Three standard Photo Multipliers Tube (PMT) light detectors with two of the channels having tunable spectral bandwidths.
- Simultaneous transmitted light or DIC imaging while scanning confocally.
- Fully automated Olympus IX81 inverted microscope.
- Additional epifluorescence and DIC (Nomarski) illumination lamps for rapid sample identification and focusing.
- Motorized Prior II XY stage with a variety of stage inserts available (slides, dishes, multiwell plates, etc..).
- Olympus FV10-ASW 3.1 confocal imaging software

Imaging lasers:

- 405nm diode laser
- 488nm Argon gas laser
- 543nm Helium-neon gas laser
- 633nm Helium-neon gas laser

Objectives:

Objective	Magnification	Immersion	Numerical Aperture	Correction Ring	Coverglass (mm)	Working Distance (mm)
UPlanSApo	10X	Air	0.4		0.17	3.1
UPlanApo	20X	Air	0.7		0.17	0.65
UApo	40X	Oil	1.35	Corr	0.17	0.1
PlanApo	60X	Water	1.2	Corr	0.13-0.21	0.28
PlanApo	60X	Oil	1.4		0.17	0.12

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