Olympus Fluoview 1000 MPE (2-photon)

NIH Grant Number: 1S10RR022585-01A1

The 2-photon microscope in this facility is on an upright microscope base with a motorized X, Y stage. The femtosecond pulsed laser is equipped with dispersion compensation to allow for maximal imaging in Z. The microscope may be operated in confocal mode using the internal detectors or two-photon mode using the external detectors. The microscope is enclosed to allow 5% CO_2 and warming up to 37°C. The ambient temperature in the room is 20°C.

Objectives	**Mag/N.A.**		
X Plan N	25x/1.05	Water/MultiPhoton	∞/0-0.23

Available Visible Lasers	**Excitation**	**Common Probes**
Blue Laser Diode (15mW)	473 nm	FITC, Cy2, Alexa 488
Green Laser Diode (15mW)	559 nm	TRITC, Cy3
Red HeNe (20mW)	635 nm	Cy5

Tunable Femtosecond pulsed laser

MaiTai HP (Newport – Spectra Physics) 690nm-1020nm

Filter options for the 2-photon external detectors

MV/G DM485, BA420-460, BA495-540HQ
MC/Y DM505, BA460-510, BA510-560 HQ
MG/R DM570, BA495-540 HQ, BA570-620