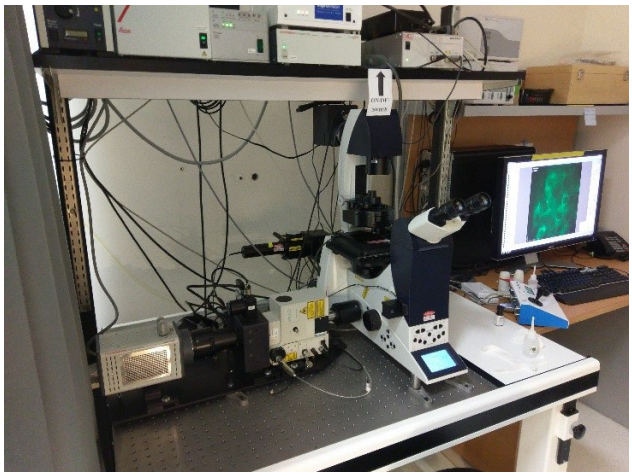
Specification & Optical Configuration

Quorum Wave FX SD confocal microscope

What is it?
The Quorum Wave FX SD confocal microscope is a laser-based system using spinning disk technology, which significantly reduces photobleaching and phototoxicity. This inverted microscope is ideal for studying live cell activity in a chamber or fixed samples with dim signals. Environmental control for live cell imaging via a stage-top incubator for temperature, CO2, and humidity control is present on this system.



Where is it?
Pavilion E, Room-512

Objective
HC PL APO / 10X, Air / 0.25 NA
HC PL APO / 20X, Air / 0.70 NA
HCX PL APO / 40X, Oil / 0.75-1.25 NA CS
HCX PL APO / 63X, Oil / 0.60-1.40 NA BL

Camera:
Hamamatsu EM-CCD Digital Camera

Laser/ Filter/ Common Fluorochromes/Dyes

Excitation Lasers		Filter Wheel 1	Filter Wheel 2	Common Fluorochromes and Dyes
405 nm	(violet)	460/50	-	DAPI, Hoechst, Alexa 405
488 nm	(blue)	525/50	-	FITC, Alexa 488, GFP, YFP
488 nm	(blue)	-	515/30	FITC,
488 nm	(blue)	-	525/50	GFP
488 nm	(blue)	-	540/30	YFP
561 nm	(yellow-green)	595/50	595/50	Alexa 594, Cy3, D SRed, RFP, tdTomato
561 nm	(yellow-green)	620/60	-	Texas Red, PI, mCherry
640 nm	(red)	690/50	-	Alexa 647, Cy5, TO-PRO3, Draq5