

Lasers and filters at the Image Stream

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Laser	CAMERA 1						CAMERA 2					
	Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8	Ch 9	Ch10	Ch 11	Ch 12
Default + default	435-480 nm	480-560 nm	560-595 nm	595-642 nm	642-745 nm	745-780 nm	435-505 nm	505-570 nm	570-595 nm	595-642 nm	642-745 nm	745-780 nm
561nm		480-551 nm	571-595 nm					505-551 nm	571-595 nm			
642 nm				595-625,5 nm	658-745 nm					595-625,5 nm	658-745 nm	
488 nm		495-560					435-480 nm					
488 nm+561 nm		495-551	571-595 nm					505-551 nm	571-595 nm			
Brightfield Default	Acridine orange Alexa Fluor 488 Alexa Fluor 514 ' Calcium Green ' DyeCycle Green DyLight 488 FITC GFP LysoTracker Green MitoTracker Green YTO RNA select green YFP	Alexa Fluor 514 Calcium Green	7AAD DsRed	PE-Alexa Fluor 610 PE-Texas Red (ECD)	PerCP ' PerCP-Cy5.5 ' 7AAD ' Propidium Iodide '	PE-Cy7 PE-Vio770	Alexa Fluor 405 BV421 Cascade Blue *CFP ' DAPI DyLight 405 eFluor 450 eFluor 506 Hoechst 33258 Hoechst 33342 LIVE/DEAD Violet	Alexa Fluor 430 BV 570 * Cascade Yellow *CFP ' eFluor 506 ' * Krome Orange ' * Lucifer Yellow * Pacific Orange Qdot 525 Qdot 545 Qdot 565 '	BV 570 ' BV 605 ' BV 650 eFluor 605 Qdot 605 Qdot 625	BV 605 BV 650 ' eFluor 650 Qdot 705 Alexa Fluor 647 Alexa Fluor 660 Alexa Fluor 680 APC APC-Cy5.5 Cy5 Cy5.5 DRAQ5 ' DyLight 649 eFluor 660 eFluor 710 MitoTracker Deep Red NiLe Blue '	Qdot800 APC-Cy7 APC-eFluor 780 APC-H7 DyLight 750	
		"Bandpass"	457,5/45	520/80	577,5/35	618,5/47	693,5/103	762,5/35	470/70	537,5/65	582,5/25	618,5/47
561nm		515,5/71	583/24					528/46	583/24			
642 nm				610/30,5	7101/87					610/30,5	701/86,5	
488 nm		528/64,5					457,5/45					
488 nm+561 nm		528/56	583/24				457,5/45	528/46	583/24			

The numbers just below the table corresponds to bandpass filter values to be used in a spectraviewer

Excitation lasers: 405 nm laser 488 nm laser 561 nm laser 642 nm laser

Darkfield (SSC) Laser: 785 laser

488 nm and 561 nm lasers are co-linear

405 nm and 642 nm lasers are co-linear

When ever you turn on a laser, a NOTCH filter will be applied. This will affect the area of light being detected in some channels; If you turn on the 561 nm laser, chanel 3 will change from detecting 560-596nm light to 571-595 nm. Underlined fluorochromes can be detected in more than one channel. ' marks the best channel to use with the standard "bandpass".

If turning on a laser affects the band width, it may also change the best channel to detect in. Check in a spectreviewer!

Fluorochromes marked by * have a broad emission peak, which will may affect neighbouring channels.