Lasers and filters at the Image Stream

February 2017. FACS Core Facility Aarhus University

CAMERA 1						CAMERA 2					
Ch 1 **420-480 nm**	**Ch 2** **480-560 nm**	**Ch 3** **560-595 nm**	**Ch 4** **595-642 nm**	**Ch 5** **642-745 nm**	**Ch 6** **745-800 nm**	**Ch 7** **430-505 nm**	**Ch 8** **505-570 nm**	**Ch 9** **570-595 nm**	**Ch10** **595-642 nm**	**Ch 11** **642-745 nm**	**Ch 12** **745-800 nm**
Brightfield Default	Acridine orange Alexa Fluor 488 Alexa Fluor 514 ' Calcium Green ' DyeCycle Green DyLight 488 FITC GFP LysoTracker Green MitoTracker Green SYTO RNA select YFP	Alexa Fluor 514 Calcium Green DsRed ' R-Phycoerythrin (PE) ' Alexa Fluor 546 Alexa Fluor 555 ' Calcium Orange ' Dil ' DyLight 549 eFluor 570 ' LysoTracker Red MitoTracker red RFP TRITC	7AAD DsRed PE-Alexa Fluor 610 PE-Texas Red (ECD) Propidium Iodide ' Alexa Fluor 555 Alexa Fluor 568 Alexa Fluor 594 ' Alexa Fluor 610 ' Calcium Orange Dil DyLight 594 eFluor 570 eFluor 615 LysoTracker red ' mCherry ' MitoTracker Red ' RFP ' Texas Red '	PerCP ' PerCP-Cy5.5 ' PerCP-eFluor 710 7AAD ' PE-Alexa Fluor 680 PE-Cy5 PE-Cy5.5 Propidium Iodide Alexa Fluor 594 DRAQ5 mCherry Texas Red	PE-Cy7 PE-Alexa Fluor 750 Darkfield (SSC)	Alexa Fluor 405 BV421 Cascade Blue * CFP ' DAPI DyLight 405 eFluor 450 eFluor 506 Hoechst 33258 Hoechst 33342 LIVE/DEAD Violet Marina Blue Pacific Blue	Alexa Fluor 430 BV 570 * Cascade Yellow * CFP eFluor 506 ' * Krome Orange ' * Lucifer Yellow * Pacific Orange Qdot 525 Qdot 545 Qdot 565 '	BV 570 ' * Krome Orange Qdot 565 Qdot 585 ' Brightfield Default	BV 570 BV 605 ' BV 650 eFluor 605 * Krome Orange Qdot 585 Qdot 605 Qdot 625	BV 605 BV 650 ' BV711 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 '	BV785 Qdot800 APC-Cy7 APC-eFluor 780 APC-H7 DyLight 750 Darkfield (SSC)
450/60	520/80	577/35	618/47	693/103	772/55	467/75	537/65	582/25	618/47	693/103	772/55

The numbers just below the table are 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

Underlined fluorochromes can be detected in more than one channel. ' marks the best channel to use.
Fluorochromes marked by * have a broad emmision peak, which will may affect neighbouring channels.