FC4: Cell & Tissue Analysis BD FACS Aria Configuration

	Position	LP	Filter	PMT Range	Fluorochrome
Blue Laser	A	755	780/60	750nm – 810nm	PE-Cy7
(488nm Em)	B	690	710/50	685nm – 735nm	PerCP-Cy5.5, PE-Cy5.5
20mW	C	640	660/20	650nm – 670nm	PE-Cy5, (PerCP option*), AO-Red***,** 7AAD**
	D	600	610/20	600nm – 620nm	PE-Texas Red (ECD), PI**
	E	550	575/25	562.5nm – 587.5nm	PE, TMRh, DsRed
	F	505	530/30	515nm – 545mnm	FITC, GFP, Alexa488, Sytox Gr, DCFDA, YFP, NDBG*****, AO-Green*****
	G		488/10		SSC
	H				None
Red Laser	A	755	780/60	750nm – 810nm	APC-Cy7, Alexa750
(638nm Em)	B	690	710/50	685nm – 735nm	Alexa 680, APC-Cy5.5
30mW	C		660/20	650nm – 670nm	APC, TO-PRO-3**
Violet Laser	A	545	605/40	585nm – 625nm	QDot 605
(405nm Em)	B	505	525/50	500nm – 550nm	Alexa 430, AmCyan, Cyan Fluorescent Protein, Pacific Orange
50mW	C		450/50	425nm – 475nm	DAPI**, Pacific Blue, Cascade Blue, Alexa 405, Hoechst
UV 20mW	A	635	670LP	> 670nm	Hoechst Red
(355nm Em)	B		450/50	425nm – 475nm	Hoechst Blue, DAPI, Indo1-Violet

Optional Filters:

	Position	LP	Filter	PMT Range	Fluorochrome
Blue Laser	C	640	675/20	665nm – 685nm	PerCP
	E	525	550/30	535nm – 565nm	YFP
	F	495	510/21	499.5nm – 520.5nm	GFP
Violet Laser	A	635	660/40	640nm – 680nm	QDot655
	B	545	605/40	585nm – 625nm	QDot 605
UV Laser	A	505 450 535 635	530/30	515nm – 545nm	Indo1-Blue, GFP, Dansyl Cadaverine, ASBMS******
			405/20	395nm – 415nm	Indo-1 Violet
			605/12	599nm – 611nm	QDot 605

* AO – Acridine Orange used to discriminate autophagy
NBDG 6-[N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)amino]-6-deoxyglucose used to discriminate glucose/hexose transport

** Dye can be used for viability exclusion on unfixed (non-permeabilized) samples

Blue Laser	PI and 7AAD	approx. 2ug/mL for $1X10^6$ cells
UV Laser	DAPI	0.05ug/mL – 0.2ug/mL for approx. $1.5X10^5$ cells
UV Laser	ASBMS	(aminostilbamidine, methanesulfonate) 10uM (from 10mM stock DMSO -80^C) for 10' at RT then place on ice
Red Laser	TO-PRO-3	$[1\text{-}5nM]_F$