



List of possible fluorochrome combinations on the X20

Please note: You can only use one fluorochrome per detector per laser at any one time

For example, do not use **Propidium iodide** and **mCherry** together as they both share the same detector and are excited by the same laser

Laser	Detector (PMT)	Dichroic longpass mirror	Band-pass filters	Fluorochrome examples
Blue 488 nm 100mW	A	685LP	695/40	PerCp-Cy5.5
	B	505LP	530/30	FITC, AF488, CFSE, GFP, SYBR Green, Fluo-3(Ca2+), BCECF, Celltracker green
	C	n/a	488/10	Side Scatter
Yellow Green 561 nm 150mW	A	750LP	780/60	PE-Cy7
	B	635LP	670/30	PE-Cy5, Fura red (CA2+), 7AAD
	C	600LP	610/20	Propidium Iodide, PE-Texas RED, mCherry, SNARF, BD Horizon PE-CF594
	D	n/a	586/15	PE, tdTomato, RFP (DsRed2)
Red 640nm 100mW	A	750LP	780/60	APC-Cy7, APC-H7
	B	690LP	712/25	APC-R7, AF700
	C	650LP	670/30	APC,AF647
Violet 405nm 100mW	A	750LP	780/60	BD Horizon Brilliant Violet 786
	B	690LP	710/50	BD Horizon Brilliant Violet 711
	C	595LP	610/20	BD Horizon Brilliant Violet 605
	D	505LP	525/50	BD Horizon Brilliant Violet 510, BV500
	E	n/a	450/50	Pacific Blue, BV450, BD Horizon Brilliant Violet 421
UV 355nm 50mW	A	690LP	740/35	BD Horizon Brilliant Ultraviolet 737
	B	630LP	670/25	BD Horizon Brilliant Ultraviolet 661
	C	550LP	580/20	BD Horizon Brilliant Ultraviolet 563
	D	n/a	379/28	BD Horizon Brilliant Ultraviolet 395

Tips : Even if recorded by different detectors , spillover makes some fluorochrome incompatibles

ALWAYS CHECK SPILL-OVER DURING YOUR EXPERIMENT DESIGN :

<http://www.bdbiosciences.com/us/s/spectrumviewer>

OR

<https://www.thermofisher.com/uk/en/home/life-science/cell-analysis/labeling-chemistry/fluorescence-spectraviewer.html>