San Francisco VA FACS FUSION Configuration Chart

updated 12/16/2019

	BLUE (488nm excitation)											
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**							
	FSC	None	None		**FSC**							
1	A	710/50	690LP	685-735	**PE-Cy5.5**	**PerCP-Cy5.5**	**BB700**	**PerCP-efluor710**	**PerCP-A**	**7AAD-B**		
2	B	530/30	505LP	515-545	**FITC**	**GFP**	**Alexa 488**	**CFSE**	**BB515**	**YFP**		
	SSC	488/10		483-493	**SSC**							
	RED (640nm excitation)											
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**							
3	A	780/60	750LP	750-810	**APC-Cy7**	**APC-H7**	**Ghost APC 780**	**APC-FIRE**	**BD FVD 780**	**Alexa 750 (dim?)**	**Alexa 790 (dim?)**	
4	B	710/50	690LP	685-735	**Alexa 700**	**APC-R700**	**BD FVD 700**					
5	C	670/30		655-685	**APC**	**Alexa 647**	**BD FVD 660**					
	VIOLET* (405 nm excitation)											
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**							
6	A	780/60	750LP	750-810	**BV786**							
7	B	710/50	690LP	685-735	**BV711**							
8	C	670/30	635LP	655-685	**BV650**							
9	D	610/20	600LP	600-620	**BV605**							
10	E	525/50	505LP	500-550	**BV510**	**Alexa 430**	**eFluor506**	**Ghost Violet510**	**Pacific Orange**	**BD FVD 510**	**BV480**	**BD V500**
11	F	450/50		425-475	**BV421**	**Sytox Blue**	**Pacific Blue**	**Alexa 405**	**Dead Violet**	**BD FVD 450**	**BD V450**	
	Yellow Green (561 nm excitation)											
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**							
12	A	780/60	750LP	750-810	**PE-Cy7**							
13	B	670/30	635LP	655-685	**PE-Cy5**	**7AAD-A**	**PerCP-B**					
14	C	610/20	600LP	600-620	**PE-efluor610**	**Dead Red**	**PE-Dazzle 594**	**PE-CF594**	**BD FVD 620**	**PE-Texas Red**	**Propidium Iodide**	
15	D	586/15		578-593	**PE**	**BD FVD 570**	**TdTomato**					

Try these spectral viewers to help you design your experiment, and determine fluor compatibility with the machine configuration.

https://www.bdbiosciences.com/en-us/applications/research-applications/multicolor-flow-cytometry/product-selection-tools/spectrum-viewer

https://www.biolegend.com/en-us/spectra-analyzer

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

General guidance rules: If you have more than 1 marker on the same cell, separate them onto different lasers (e.g. CD3 PerCP and Ly6C APC). Do not put an abundant marker onto your brightest

San Francisco VA FACS ARIAIIU Configuration Chart

updated CH 10/29/2018

	BLUE (488nm excitation)										
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**						
	FSC	**None**	**None**		**FSC**						
1	**A**	**780/60**	**735LP**	**750-810**	**PE-Cy7**						
2	**B**	**695/40**	**655LP**	**675-715**	**PerCP**	**PE-Cy5.5*** **	**PE-Cy5*** **	**PerCP-eFluor710**	**PerCP-Cy5*** **	**7-AAD**	**PerCP-Cy5.5*** **
3	**C**	**610/20**	**595LP**	**600-620**	**PE-efluor610**	**Pe-Texas Red**	**Dead Red**	**PE CF 594**	**PE-Dazzle 594**		
4	**D**	**576/26**	**556LP**	**563-589**	**PE**	**Propidium Iodide**	**Alexa Fluor 555**				
5	**E**	**530/30**	**502LP**	**515-545**	**FITC**	**GFP**	**Alexa Fluor 488**	**CFSE**	**ALDH**	**DEAB**	
	F	**488/10**		**483-493**	**SSC**						
	RED (633nm excitation)										
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**						
6	**A**	**780/60**	**735LP**	**750-810**	**Alexa Fluor 750**	**APC-Cy7**	**APC-H7**	**Alexa Fluor 790**	**Ghost APC 780**	**APC-FIRE**	
7	**B**	**660/20**		**650-670**	**APC*** **	**Alexa Fluor 647**	**Alexa Fluor 610**				
	C										
	VIOLET* (405 nm excitation)										
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**						
8	**A**	**670/30**	**635LP**	**655-685**	**BV650*** **						
9	**B**	**530/30**	**505LP**	**515-545**	**Pacific Orange****	**Alexa Fluor 430**	**eFluor506**	**BV510**	**GHOST VIOLET 510**		
10	**C**	**450/50**		**425-475**	**Sytox Blue**	**Pacific Blue****	**Alexa Fluor 405**	**Dead Violet**	**BV421**		
	D										
	E										
	F										
	G										
	H										
	UV* (375nm excitation)										
	Detector	**Band pass Filter**	**Longpass filter**	**Effective range**	**FLUOROCHROMES**						
	A	**670/30**	**635LP**	**655-685**							
	B	**530/30**	**505LP**	**515-545**							
11	**C**	**450/50**		**425-475**	**DAPI**	**eFluor 455UV**	**Hoescht**	**Alexa Fluor 350**			
	D										
	E										
	F										
	G										
	H										

***The violet and UV lasers cannot be used simultaneously.**

**** In the Violet laser section, Pacific Orange and Pacific Blue have the same excitation and emission spectra (ex405/em455, 500, 551)**

***** In the Blue and Red laser sections, Cy5 and Cy5.5 tandem conjugates are poor choices due to spills, crossactivation and instability. Try to avoid PE-Cy5(.5) conjugates**

General guidance rules: If you have more than 1 marker on the same cell, separate them onto different lasers (e.g. CD3 PerCP and Ly6C APC). Do not put an abundant