CYTO Kiel
Cytometry Facility Kiel
Institute of Immunology

Cytek Aurora CS	(Sorter)
Laser:	355, 405, 488, 561, 640 nm
Detection:	FSC, SSC-V, SSC-B, over 40 parameters (67 detector channels) With this spectral analyzer, fluorescence signals are not measured in single detector channels, but the whole spectral fingerprint is detected and is used for calculating the fluorescence signal.
Operation mode:	Service cell sorts
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Nozzle size in µm:	70, 85, 100 or 130 µm
Target populations:	sorting of up to six populations in parallel
Collection tube/dish:	1.5 and 2.0 mL tube, 5 mL round bottom tube, 15 mL falcon 6, 24, 48, 96 and 384well plate
Sort mode:	Purity, Enrich, Mixed, Mulit-Way, Single Cell, Index sorting

Laser line (nm)	Filter (nm)	Channel name	Dyes (e.g.)		
355		UV1			
		UV2	BUV395		
		UV3			
		UV4			
		UV5			
		UV6	AF350	L/D Blue	
		UV7	BUV496	Dapi	Zombie UV
		UV8			
		UV9	BUV563		
		UV10	BUV615		
		UV11	BUV661		
		UV12			
		UV13			
		UV14	BUV737		
		UV15			
		UV16	BUV805		
405		SSC-V			
		V1	BV421		
		V2	cFluor V420	AF405	SuperBright 436
		V3	Cfluor V450	Pacific Blue	
		V4			
		V5	BV480		
		V6			
		V7	BV510	VioGreen	
		V8	BV570	cFluor V547	
		V9			
		V10	BV605	cFluor V610	
		V11	BV650	SuperBright 645	
		V12			
		V13	BV711	SuperBright 702	
		V14	BV750		
		V15	BV7585	SuperBright 780	
		V16			
488		FSC			
		SSC-B			
		B1	BrilliantBlue 515	cFluor B515	Vio515
		B2	FITC	AF488	
		B3	cFluor B548		
		B4			
		B5			
		B6	BrilliantBlue 630		
		B7	BrilliantBlue 660		
		B8	PerCP		
		B9	PerCP-Cy5.5	cFluor B690	BrilliantBlue 700
		B10	PerCP-Vio 700	PerCP-eFluor 710	
		B11			
		B12	BrilliantBlue 755		
		B13			
		B14	BrilliantBlue 790		
561		YG1	PE	cFluor BYG575	cFluor BYG584
		YG2			
		YG3	PE-Dazzle 594	cFluor ByG610	
		YG4	PE-AF 610	PE-Fire 640	
		YG5	PE-Cy5	cFluor BYG667	
		YG6			
		YG7	PE-AF700	PE-Fire 700	cFluor BYG781
		YG8			
		YG9	PE-Cy7	cFluor BYG781	
		YG10			
640		R1	APC	cFluor R659	
		R2	AF647	cFluor R668	
		R3			
		R4	AF700	cFluor R720	APC-R700
		R5			
		R6	Zombie NIR		
		R7	APC-Cy7	cFluor R780	APC-eFluor 780
		R8	APC-Fire 810	cFluor R840	