

Core Facility Flow Cytometry - Cytometer Configuration

**BD LSRFortessa (Rudolph lab)**

<b>Laser</b>	<b>Filter set</b>	<b>Dyes</b>
405 nm	780/60; 755LP	BV785; BUV805; Superbright780
	710/20; 685LP	BV711; BUV737
	660/20; 630LP	BV650; BUV661
	610/20; 595LP	BV605; BUV563
	525/50; 505LP	BV510; AF430; V500; CFP
	450/50	AF405; Pacific Blue; V450; BV421; Sytox Blue
488 nm	695/40; 655LP	PerCP; PerCP-Cy5.5; PerCP-eF710; 7-AAD
	530/30; 505LP	AF488; FITC; GFP; CFSE; YFP; Sytox Green
	488/10	SSC
561 nm	780/60; 750LP	PE-Cy7
	710/50; 685LP	PE-AF700; PE-Cy5.5
	670/30; 635LP	PE-Cy5
	610/20; 600LP	PE-AF594; PE-TxRed; PI; mCherry; PE-CF594; PE-Vio615; PE/Dazzle594
	586/15	PE; RFP; tdTomato; DsRed
640 nm	780/60; 750LP	APC-Cy7; APC-AF750; Zombie NIR; eF780; APC-Fire750; APC-Vio770; APC-H7
	730/45; 690LP	AF700; APC-A700
	670/14	APC; AF647; eF660; Sytox Red

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**BD FACSCanto II**

<b>Laser</b>	<b>Filter set</b>	<b>Dyes</b>
405 nm	510/50; 502LP	BV510; AF430; V500; CFP
	450/50	AF405; DAPI; Hoechst; Pacific Blue; V450; BV421; Sytox Blue
488 nm	780/60; 735LP	PE-Cy7
	670LP; 655LP	PerCP; PerCP-Cy5.5; PerCP-eF710; 7-AAD; PE-Cy5
	610LP	
	585/42; 556LP	PE; PI; RFP; tdTomato; DsRed
	530/30; 502LP	AF488; FITC; GFP; CFSE; YFP; Sytox Green
	488/10	SSC
633 nm	780/60; 735LP	APC-Cy7; APC-AF750; Zombie NIR; eF780; APC-Fire750; APC-Vio770; APC-H7
	685LP	
	660/20	APC; AF647; eF660; Sytox Red

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### BD FACSVers

Laser	Filter set	Dyes
405 nm	527/32	BV510; AF430; V500; BUV496; CFP
	448/45	AF405; DAPI; Hoechst; Pacific Blue; V450; BV421; Sytox Blue
488 nm	783/56	PE-Cy7
	700/54	PerCP; PerCP-Cy5.5; PerCP-eF710; 7-AAD; PE-Cy5
	586/42	PE; PI; RFP; tdTomato; DsRed
	528/45	AF488; FITC; GFP; CFSE; YFP; Sytox Green
	488/15	SSC
640 nm	783/56	APC-Cy7; APC-AF750; Zombie NIR; eF780; APC-Fire750; APC-Vio770; APC-H7
	660/10	APC; AF647; eF660; Sytox Red

Core Facility Flow Cytometry - Cytometer Configuration

**BD LSRFortessa (Waskow lab)**

Laser	Filter set	Dyes
355 nm	530/30; 505LP	BUV496
	450/50	DAPI; BUV395; AF350; Hoechst
405 nm	780/60; 750LP	BV785; BUV805; Superbright780
	710/50; 690LP	BV711; BUV737
	660/20; 630LP	BV650; BUV661
	610/20; 595LP	BV605; BUV563
	525/50; 505LP	BV510; AF430; V500; CFP
	450/50	AF405; Pacific Blue; V450; BV421; Sytox Blue
488 nm	710/50; 685LP	PerCP; PerCP-Cy5.5; PerCP-eF710; 7-AAD
	530/30; 505LP	Alexa Fluor 488; FITC; GFP; CFSE; YFP; Sytox Green
	488/10	SSC
561 nm	780/60; 750LP	PE-Cy7
	710/50; 685LP	PE-AF700; PE-Cy5.5
	670/30; 635LP	PE-Cy5
	610/20; 600LP	PE-AF594; PE-TxRed; PI; mCherry; PE-CF594; PE-Vio615; PE/Dazzle594
	586/15	PE; RFP; tdTomato; DsRed
640 nm	780/60; 750LP	APC-Cy7; APC-AF750; Zombie NIR; eF780; APC-Fire750; APC-Vio770; APC-H7
	730/45; 690LP	AF700; APC-A700
	670/14	APC; AF647; eF660; Sytox Red

**Cytek Aurora, spectral analyzer**

**Laser**

355 nm
405 nm
488 nm
561 nm
640 nm

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Imagestream MkII (image-based flow cytometer)

		Excitation Laser (nm)								
Ch	Band (nm)	405	488	561	642	730	785	Used	Ch	
1	435-480 (457/45)	BRIGHTFIELD								1
2	480-560 (528/65)		<b>FITC, AF488, GFP, YFP, DyLight488, PKH67, Syto13, SpectrumGreen, LysoTrackerGreen, MitoTrackerGreen,</b>						2	
3	560-595 (577/35)		<b>PE, PKH26, Cy3, DSRed, CellMask/CellTracker/SY TOX Orange</b>	<b>PE, AF546, DyLight550, PKH26, DSRed, Cy3, SptmOrange</b>					3	
4	595-642 (610/30)		<b>Ch4/Ch10 BF or PE-TexRed*, ECD*, PE-AF610*, RFP, QD625*, eFluor625*</b>	<b>Ch4/Ch10 BF or AF568*, DyLight594*, PE-TxRed*, ECD*, PE-AF610*, RFP, mCherry*</b>					4	
5	642-748 (702/85)		<b>PE-Cy6*, PE-AF647*, TAAO*, Pi*, PerCP*, PerCP-Cy5.5*, eFluor650*, FuraReddo Draq6*, LDS751*</b>	<b>PE-Cy6*, PE-AF647*, TAAO*, Draq6*, LDS751*</b>					5	
6	745-785 (765/40)		<b>PE-Cy7*, PE-AF750*</b>	<b>PE-Cy7*, PE-AF750*</b>			SSC		6	
7	435-505 (457/45)	<b>*DAPI, BV421, AF405, Hoechst, PacBlue, CascadeBlue, eFluor450, DyLight405, CFP, LIVE/DEAD Violet</b>							7	
8	505-570 (537/65)	<b>*BV510, PacOrange, CascadeYellow, AF430, eFluor525, QD525</b>							8	
9	570-595 (582/25)	<b>Ch1/Ch9 BF or *QD565, QD585, eFluor565</b>	BRIGHTFIELD							9
10	595-642 (610/30)	<b>Ch4/Ch10 BF or *QD625, eFluor625, BV605</b>							10	
11	642-748 (702/85)	<b>*QD705, eFluor750, BV711</b>			<b>AF647, AF660, AF680, APC-Cy5, DyLight649, DyLight680, Draq6*, PE-AF647*, PE-Cy5*, PerCP*, PerCP-Cy5.5*</b>				11	
12	745-785 (765/40)	<b>*QD800, BV786</b>			<b>APC-Cy7, APC-AF750, APC-HT, APC-eFluor750, Cy7, AF750, DyLight750, PE-Cy7*, PE-AF750*</b>	<b>AF750, Cy7, DyLight750</b>	SSC		12	

Recommended dyes (based on optimal excitation and detection channels) are in boldface.

\*Many dyes will excite by more than one laser, and this can increase cross camera compensation.

\*\*Channel bandpass may change depending on which lasers are on. Values listed are assuming 405,488, and 642 excitation.

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