

**The Research Institute at Nationwide Childrens Hospital
Flow Cytometry Core Laboratory**

Standard Filter Layout for LSR II "Dodecapus"

Laser/Array	Detector	Example Fluorochromes	Filters	
Blue (488)	A	PE-Cy7/PE Alexa 750	735 LP	800/65 BP
	B	PE-Cy 5.5/PE Alexa 680/PerCP/PE-Cy5/PE-Tex Red/PI(live-dead)/7AAD	635 LP	695/40 BP
	C	PE/DS red/PI (cell cycle)	555 LP	575/26 BP
	D	FITC/GFP/Alexa 488/CFSE	505 LP	530/30 BP
	E	SSC (Side Scatter)		488/10 BP
Violet (405)	A	Alexa 430/BV 510	505 LP	525/50 BP
	B	Cascade Blue/Pacific Blue Alexa 405/BV421		450/50 BP
Red (633)	A	Alexa 700/Alexa 680	680 LP	730/30 BP
	B	APC/Alexa 647		660/20 BP

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Standard Filter Layout for LSR II "Behemoth"

Laser/Array	Detector	Example Fluorochromes	Filters	
Blue (488)	A	PE-Cy7/PE-Alexa 750	755 LP	787/42 BP
	B	PE-Cy 5.5/PE-Alexa 680	685 LP	710/50 BP
	C	PE-Cy5/PerCP	640 LP	660/32 BP
	D	PE-Texas Red/PI Alexa 610/7-AAD	PE- 600 LP	610/20 BP
	E	PE	550 LP	575/26 BP
	F	FITC/GFP/Alexa 488/CFSE	505 LP	530/30 BP
	G	SSC (Side Scatter)		488/10 BP
Violet (405)	A	BV 786	750 LP	780/60 BP
	B	BV 711	690 LP	710/50 BP
	C	BV 650/Qdot 655	630 LP	655/8 BP
	D	BV 605/Qdot 605	595 LP	605/12 BP
	E	BV 510/Alexa 430/Qdot 525	475 LP	510/40 BP
	F	BV 421/Cascade Blue Pacific Blue/Alexa 405		450/50 BP
UV (355)	A	Indo-1 (Blue)	450 LP	530/30 BP
	B	Indo-1 (Violet)/DAPI Live-Dead Blue Viability		440/40 BP
Red (633)	A	APC-Cy7/APC-Alexa 750	755 LP	780/60 BP
	B	Alexa 700	710 LP	730/45 BP
	C	APC-Cy5.5 APC-Alexa 680/Alexa 680	675 LP	695/40 BP
	D	APC/Alexa 647	655	670/14 BP

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Standard Filter Layout for Kraken

Laser/Array	Detector	Example Fluorochromes	Filters	
Blue (488)	A	PE-Cy 5.5/PE-Alexa 680 PerCP-Cy5.5	690 LP	710/50 BP
	B	FITC/GFP/Alexa 488/CFSE	505 LP	530/30 BP
	C	SSC (Side Scatter)		488/10 BP
Violet (405)	A	BV 786	750 LP	780/60 BP
	B	BV 711	690 LP	710/50 BP
	C	BV 650/Qdot 655	635 LP	670/30 BP
	D	BV 605/Qdot 605	595 LP	610/20 BP
	E	BV 510/Alexa 430/Qdot 525	495 LP	525/50 BP
	F	BV 421/Cascade Blue Pacific Blue/Alexa 405		450/50 BP
UV (355)	A	BUV 737	690 LP	740/35 BP
	B	BUV 496/DAPI	450 LP	515/30 BP
	C	BUV 396		379/28 BP
Red (640)	A	APC-Cy7/APC-Alexa 750	750 LP	780/60 BP
	B	Alexa 700	690 LP	730/45 BP
	C	APC/Alexa 647		670/30 BP
Green (561)	A	PE Cy7	750 LP	780/60 BP
	B	PE Cy5	635	670/30 BP
	C	mCherry	600 LP	610/20 BP
	D	PE		586/15 BP

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Standard Filter Layout for Influx Sorter

Laser/Array	Detector	Example Fluorochromes	Filters
Blue (488)	1	FSC par (Forward Scatter)	-----
	2	FSC perp (Forward Scatter)	-----
	3	SSC (Side Scatter)	-----
	4	FITC/GFP/Alexa 488/CFSE	530/40 BP
	5	PerCP/PECy5	670/30 BP
	6	PE-Cy 5.5/PE Alexa 680	710/50 BP
Violet (405)	13	Cascade Blue/Pacific Blue Alexa 405/BV 421	460/50 BP
	14	Qdot 525/Alexa 430 AmCyan/BV 510	520/35 BP
	15	Qdot 605/BV 605	610/20 BP
	16	Qdot 655/BV 650	660/20 BP
	19	Qdot 705/BV 711	710/50 BP
	20	Qdot 800/BV 786	750 LP
UV (355)	9	Indo-1 (Violet)/DAPI Live-Dead Blue Viability	460/50 BP
	18	Hoechst 33342	670/30 BP
Red (633)	7	APC/APC-Cy5.5 APC-Alexa 680/Alexa 680	670/30 BP
	8	Alexa 700	720/40 BP
	17	APC-Cy7/APC-Alexa 750	750 LP
Green (561)	10	PE	585/29 BP
	11	mCherry	610/20 BP
	12	PE Cy5	670/30 BP
	21	PE Cy5.5	710/50 BP
	22	PE Cy7	750 LP