

ARIA II (The Mean Machine HSRB E-362A) and LSR II (The Army Surplus Special and The Bouldermobile* HSRB E-362)

Laser	Violet (405)					Blue (488)			Green (561)				Red (640)			
Detector	V 450/50	V 525/50	V 610/20	V 660/20	V 705/70	SSC	B 530/30	B 710/50	YG 582/15	YG 610/20	YG 670/30	YG 710/50	YG 780/60	R 670/30	R 720/40	R 780/60
Fluorophores/ probes	BV421	BV510	BV605	BV650	BV711	SSC	FITC	PerCP-Cy5.5	PE	PE-TR	PE-Cy5	PE-Cy5.5	PE-Cy7	APC	Alexa700	APC-Cy7
	eFluor 450	QDot 525	Qdot 605	Qdot 655	Qdot 705		Alexa 488	PerCP-eF 710		PE-CF594	7-AAD	7-AAD		Alexa 633		APC-H7
	V450	V500	Pacific Orange				GFP	PI		mCherry				eFluor 660		APC-eF 780
	Pacific Blue	Pacific Orange					YFP			mKate				TO-Pro-3		Zombie NIR
Alexa 405	Alexa 430					CFSE			Katushka				Alexa 647			
Hoescht	AmCyan								RFP							
	Live/Dead Aqua															
UV (355)*																
UV 379/28	UV 515/30		UV 740/35													
BUV395	BUV496		BUV737													
Indo-1 Bound	Hoechst 33342		Indo-1 Unbound													

*The Bouldermobile does not have a UV laser

Canto II (The Bulletproof Bomb HSRB E-362)

Laser	Violet (405)		Blue (488)					Red (640)	
Detector	V 450/50	V 510/50	SSC	B 530/30	B 585/42	670 LP	B 780/60	R 660/20	R 780/60
Fluorophores/ probes	BV421	BV510	SSC	FITC	PE	PerCP-Cy5.5	PE-Cy7	APC	APC-Cy7
	V450	V500		Alexa 488		PI		Cy5	APC-e780
	Pacific Blue	Qdot 525		GFP		7-AAD		Alexa633	Zombie NIR
	Alexa 405	Pacific Orange		YFP				Alexa647	
eFluor 450	Alexa 430		CFSE				TO-Pro-3		
	AmCyan								
	Live/Dead Aqua								

Cytoflex (The Hooded Claw HSRB E-362)

Laser	Violet (405)				Blue (488)			Green (561)				Red (640)		
Detector	V 450/45	V 525/40	V 610/20	V 660/20**	SSC	B 525/40	B 690/50	YG 585/42	YG 610/20	YG 690/50	YG 780/60	R 660/20	R 712/25	R 780/60
Fluorophores/ probes	BV421	BV510	BV605	BV650	SSC	FITC	PerCP-Cy5.5	PE	PE-TR	PE-Cy5	PE-Cy7	APC	Alexa700	APC-Cy7
	eFluor 450	QDot 525	Qdot 605	Qdot 655		Alexa 488	PerCP-eF 710		PE-CF594	7-AAD		Cy5		APC-H7
	V450	V500	Pacific Orange			GFP	PI		mCherry	PE-Cy5.5		Alexa633		APC-eF 780
	Pacific Blue	Pacific Orange				YFP			mKate	7-AAD		Alexa647		Zombie NIR
Alexa 405	Alexa 430				CFSE			Katushka			TO-Pro-3			
Hoescht	AmCyan							RFP						
	Live/Dead Aqua													

**Can be substituted for SSC in V 405/10

Imagestream X MK II (The Buzzwagon HSRB E-362)

Channel	Camera 1						Camera 2					
	1	2	3	4	5	6	7	8	9	10	11	12
Band (nm)	430-480	480-560	560-595	595-640	640-745	745-800	430-505	505-570	570-595	595-640	640-745	745-800
Color coded by laser:	Brightfield***	FITC	PE	PE-TR	PE-Cy5	SSC***	DAPI	BV510	Brightfield***	Qdot 625	APC	SSC***
405 nm		Alexa 488	Cy3	Alexa 568	PE-Alexa 647	PE-Cy7	Hoechst	V500	Qdot 565	eFluor 625	Alexa 647	APC-Cy7
488 nm		GFP	Alexa 546		DRAQ5	PE-Alexa 750	BV421	Qdot 525	Qdot 585		Alexa 660	APC-Alexa 750
561 nm		YFP	Alexa 555				V450	Pacific Orange			Alexa 680	Qdot 800
642 nm		CFSE					Pacific Blue	Alexa 430			DRAQ5	
							Alexa 405				Qdot 705	

***SSC can be measured in either Ch6 or Ch12. Default brightfields are Ch1 and Ch9 but can be moved

Sony SH800 (The Creepy Coupe E-362)

Channel	FL1	FL2	FL3	FL4	FL5	FL6
Band (nm)	450/50	525/50	600/60	665/30	720/60	785/60
Color coded by laser:	BV 421	AmCyan1	BV 570	Qdot 605	Qdot 705	Qdot 800
405 nm	Alexa 405	T-Sapphire	Qdot 585	7-AAD	PerCP-Cy5.5	PE-Cy7
488 nm	DAPI	Qdot 525	Qdot 605	PerCP	PerCP-eF 710	APC-Cy7
561 nm	Pacific Blue	Pacific Orange	PI	PE-Cy5	PE-Cy5.5	APC-Alexa 750
638 nm	mCFP	EGFP	PE	mPlum	APC-Cy5.5	
	Hoechst 33342	CFSE	PE-Texas Red	APC	Alexa 700	
		FITC	mOrange	Cy5		
		Alexa 488	DsRed-Monomer	Alexa 647		
		EYFP	tdTomato			
		mCitrine	mCherry			

This is just a guide of common fluorochromes (there are many more), for questions please ask facility staff. Dyes can be purchased from any of the following:

- <http://www.Biolegend.com/>
- <http://www.eBioscience.com/>
- <http://www.BDbiosciences.com/>
- <http://www.BeckmanCoulter.com/>
- <http://www.LifeTechnologies.com/>
- <http://www.TonboBio.com/>
- <http://www.abcam.com/>