

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### Analyzers

#### Aurora A, B, & D (5 lasers)

Spectral Analyzers

Cytek Biosciences



Aurora A is located in ARC 1207i  
Aurora B is located in CTRB 10107  
Aurora D is located in ARC 1207g

The **Aurora analyzers** (Cytek Biosciences) are spectral cytometers equipped with 5 lasers (355, 405, 488, 561, and 640 nm), 64 fluorescence channels, and 3 light scatter detectors (FSC, SSC blue and SSC violet).

- Two side scatter detectors off the blue and violet lasers.
- The **Aurora analyzers** can be set to automatically load samples from 96 well plates and a 40 tube rack
- Sample flow rates: Low: 15 µL/min, Medium: 30 µL/min, High: 60 µL/min, Plate high-throughput mode: 100 µL/min
- Theoretical limit of fluorochromes detectable: 62 different fluorochromes per sample
- **Software: SpectroFlo 3**
- Capability of performing autofluorescence extraction (cellular autofluorescence is handled as a distinct spectral signature).

Laser	Ex(nm)	Em (nm)	Channel	Fluorochromes
UV	355	373/15	UV1	
	355	388/15	UV2	BUV395, CellTrace Blue
	355	428/15	UV3	
	355	443/15	UV4	
	355	458/15	UV5	
	355	473/15	UV6	LD Blue, AF350, CellTrace Calcein Blue, DyLight350, eFluor455
	355	514/28	UV7	BUV496, DAPI, Hoechst 33342, Zombie UV
	355	542/28	UV8	
	355	582/31	UV9	BUV563
	355	613/31	UV10	BUV615
	355	664/27	UV11	BUV661
	355	692/28	UV12	
	355	720/29	UV13	
	355	750/30	UV14	BUV737
	355	780/30	UV15	
	355	812/34	UV16	BUV805
Violet	405	428/15	V1	BV421
	405	443/15	V2	AF405, SB436, Zombie Violet, cFluor V420, DyLight405
	405	458/15	V3	BFP, CellTrace Violet, cFluorV450, LD Violet, PacBlue, VioBlue
	405	473/15	V4	SYTOX Blue
	405	508/20	V5	BV480, AmCyan, CFP, cFluorV505, mCerulean3, VioletFluor500
	405	525/17	V6	Sapphire
	405	542/17	V7	BV510, LD Aqua, Krome Orange, eFluor506, Ghost Dye Violet 510
	405	581/19	V8	BV570, LD Yellow, PacOrange, Spark Violet 538, cFluorV547
	405	598/20	V9	
	405	615/20	V10	BV605, SB600, Zombie Yellow, cFluorV610, ViaDye Violet
	405	664/27	V11	BV650, SB645
	405	692/28	V12	
	405	720/29	V13	BV711, SB702
	405	750/30	V14	BV750
	405	780/30	V15	BV785, BV786, SB780
	405	812/34	V16	

\*BV = Brilliant Violet; SB = Super Bright; AF = Alexa Fluor; L/D = Live/Dead.

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

(continued)

Aurora A,B & D (5 lasers)		Spectral Analyzers		Cytex Biosciences
Laser	Ex(nm)	Em (nm)	Channel	Fluorochromes
Blue	488	508/20	B1	BB515, CellTrace Calcein Green, NovaFluor Blue 510, VioB515
	488	525/17	B2	FITC, GFP, AF488, CFSE, CellTracker Green, Kiravia Blue 520
	488	542/17	B3	LD Green, MitoTracker Green, SYTOX Green, Spark Blue 550, YFP, RB545, AF532
	488	581/19	B4	
	488	598/20	B5	NovaFluor Blue 585
	488	615/20	B6	BB630 MitoSOX Red, NovaFluor Blue 610, NovaFluor Blue 610-70S
	488	661/17	B7	BB660, NovaFluor Blue 660-120S
	488	679/18	B8	PerCP, cFluor B675
	488	697/19	B9	PerCP-Cy5.5, BB700, cFluor B690, RB705
	488	717/20	B10	PerCP-eFluor 710, PerCP-Vio 700
	488	738/21	B11	
	488	760/23	B12	BB755
	488	783/23	B13	
	488	812/34	B14	BB790, RB780
Yellow-green	561	577/20	YG1	PE, AF546, AF555, AF561, CellTrace Yellow, Cy3, tdTomato, DsRed, RY586
	561	598/20	YG2	Spark YG 593, CF583, mApple, NovaFluor Yellow 590
	561	615/20	YG3	PE-CF594, PE-Dazzle, PE-TxRed, LD Red, mCherry, PE-vio 615
	561	661/17	YG4	7-Aad, PE-Fire 640, PI, PE-AF 610, NovaFluor Yellow 660, mKate
	561	679/18	YG5	PE-Cy5, cFluor BYG667
	561	697/19	YG6	NovaFluor Yellow 690
	561	720/29	YG7	PE-Cy5.5, PE-Fire 700, PE-AF 700, NovaFluor Yellow 730
	561	750/30	YG8	cFluor BYG750
	561	780/30	YG9	PE-Cy7, PE-Vio 770, cFluor BYG781
	561	812/34	YG10	PE-Fire 810
Red	640	661/17	R1	APC, CellTrace Far Red, cFluor R659, CF633, ViaKrome 638
	640	679/18	R2	AF647, LD Far Red, eFluor660, Vio667, NovaFluor Red 660
	640	697/19	R3	AF660, APC-Cy5.5, DRAQ5, DRAQ7, Spark NIR 685
	640	717/20	R4	AF700, AF680, APC-AF700, Ghost Dye Red 710, R718
	640	738/21	R5	ViaKrome 808
	640	760/23	R6	Zombie NIR
	640	783/23	R7	APC-Cy7, APC-Fire 780, APC-Fire 750, eFluor 780, LD NIR
	640	812/34	R8	AF790, APC-Fire 810, cFluor R840, DyLight 800

\*BV = Brilliant Violet; SB = Super Bright; AF = Alexa Fluor; L/D = Live/Dead.

Note: The optical configuration for the Aurora analyzers (shown above) also applies to **Aurora CS (Cell Sorter)**.

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### CytoFLEX LX (6 lasers)



ARC 1207

CytoFLEX LX (6 lasers)		Analyzer			Beckman-Coulter
Laser	Ex (nm)	Em (nm)	Channel	Fluorochromes	
Near UV	375	405/30	NUV405	BUV395	
Near UV	375	450/50	NUV450	DAPI, Hoechst blue, L/D blue, Zombie UV	
Near UV	375	675/30	NUV675	BUV661, Hoechst red	
Violet	405	450/45	V450	Pacific Blue, BV421, Horizon V450, eFluor 450, SB436	
Violet	405	525/40	V525	L/D Aqua, BV510, AmCyan, Qdot 525, V500	
Violet	405	610/20	V610	BV605, SB600, Qdot 605	
Violet	405	660/20	V660	BV650, SB645, Qdot 655	
Violet	405	763/42	V763	BV786, SB780	
Blue	488	525/40	B525	FITC, AF488, GFP, CFSE, Fluo-4	
Blue	488	610/20	B610	MitoSOX red, PE-CF594, PE-Texas Red, PI	
Blue	488	690/50	B690	PerCP, PerCP-Cy5.5	
Yellow-Green	561	585/42	Y585	PE, dTomato, RFP, dsRed, mOrange	
Yellow-Green	561	610/20	Y610	mCherry, PE-CF594, PE-Texas Red, PI	
Yellow-Green	561	675/30	Y675	PE-Cy5, 7AAD, mPlum, PE-AF647, PCS	
Yellow-Green	561	710/50	Y710	PE-Cy5.5, PE-AF680, PCS.5	
Yellow-Green	561	763/42	Y763	PE-Cy7, PC7	
Red	638	660/10	R660	APC, AF647, DRAQ5	
Red	638	712/25	R712	AF700, APC-R700	
Red	638	763/42	R763	APC-Cy7, APC-H7, APC-Fire750, DRAQ7	
Infrared	808	840/20	IR840	AF790, IRDye 800CW	
Infrared	808	885/40	IR885	PromoFluor-840	

### CytoFLEX S (4 lasers)



ARC 1207

CytoFLEX S (4 lasers)		Analyzer			Beckman-Coulter
Laser	Ex (nm)	Em (nm)	Channel	Fluorochromes	
Violet	405	450/45	V450	Pacific Blue, BV421, Horizon V450, eFluor 450, SB436	
Violet	405	525/40	V525	L/D Aqua, BV510, AmCyan, Qdot 525, V500	
Violet	405	610/20	V610	BV605, SB600, Qdot 605	
Violet	405	660/20	V660	BV650, SB645, Qdot 655	
Blue	488	525/40	B525	FITC, AF488, GFP, CFSE, Fluo-4	
Blue	488	690/50	B690	PerCP, PerCP-Cy5.5	
Yellow-Green	561	585/42	Y585	PE, dTomato, RFP, dsRed, mOrange	
Yellow-Green	561	610/20	Y610	mCherry, PE-CF594, PE-Texas Red, PI	
Yellow-Green	561	690/50	Y690	PE-Cy5.5, PE-AF680, PCS.5	
Yellow-Green	561	763/42	Y763	PE-Cy7, PC7	
Red	638	660/10	R660	APC, AF647, DRAQ5	
Red	638	712/25	R712	AF700, APC-R700	
Red	638	763/42	R763	APC-Cy7, APC-H7, APC-Fire750, APC-eFluor 780, DRAQ7	

\*BV = Brilliant Violet; SB = Super Bright; AF = Alexa Fluor; L/D = Live/Dead.

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### Analyzers

CytoFLEX S (3 lasers)	Analyzer				Beckman-Coulter
	Laser	Ex (nm)	Em (nm)	Channel	Fluorochromes
 <p>ARC1207</p>	Violet	405	450/45	V450	Pacific Blue, BV421, Horizon V450, eFluor 450, SB436
	Violet	405	525/40	V525	L/D Aqua, BV510, AmCyan, Qdot 525, V500
	Violet	405	610/20	V610	BV605, SB600, Qdot 605
	Violet	405	660/20	V660	BV650, SB645, Qdot 655
	Violet	405	763/42	V763	BV785
	Blue	488	525/40	B525	FITC, AF488, GFP, CFSE, Fluo-4
	Blue	488	585/42	B585	PE
	Blue	488	610/20	B610	PE-CF594, PE-Texas Red, PI
	Blue	488	690/50	B690	PerCP, PerCP-Cy5.5
	Blue	488	763/42	B763	PE-Cy7, PC7
	Red	638	660/10	R660	APC, AF647, DRAQ5
	Red	638	712/25	R712	AF700, APC-R700
	Red	638	763/42	R763	APC-Cy7, APC-H7, APC-Fire750, APC-eFluor 780, DRAQ7

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# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### Analyzers

LSR Fortessa	Analyzer				BD Biosciences
	Laser	Ex (nm)	Em (nm)	Channel	Fluorochromes
 ARC 1207	Ultra-violet	355	379/28	355-B	BUV395
	Ultra-violet	355	450/50	355-A	DAPI, L/D blue, Zombie UV, Hoechst 33342
	Violet	405	450/50	405-F	Pacific Blue, BV421, eFluor450, SB436
	Violet	405	525/50	405-E	L/D Aqua, BV510, AmCyan
	Violet	405	610/20	405-D	BV605, SB600
	Violet	405	655/8	405-C	BV650, SB645
	Violet	405	710/50	405-B	BV711, SB702
	Violet	405	780/60	405-A	BV786, SB780
	Blue	488	530/30	488-B	FITC, AF488, GFP, CFSE, Fluo-4
	Blue	488	695/40	488-A	PerCP, PerCP-Cy5.5, PerCP-eFluor710
	Yellow-Green	561	582/15	561-E	PE, dTomato, RFP
	Yellow-Green	561	610/20	561-D	PE-Texas Red, PI, mCherry, PE-CF594
	Yellow-Green	561	660/20	561-C	PE-Cy5, 7AAD, mPlum, PE-AF647
	Yellow-Green	561	710/50	561-B	PE-Cy5.5
	Yellow-Green	561	780/60	561-A	PE-Cy7
	Red	640	670/14	640-C	APC, AF647, DRAQ5
	Red	640	710/50	640-B	AF700
Red	640	780/60	640-A	APC-Cy7, APC-H7, APC-Fire750, APC-eFluor 780, DRAQ7	

LSR II	Analyzer				BD Biosciences
	Laser	Ex (nm)	Em (nm)	Channel	Fluorochromes
 CTRB 10107	Ultra-violet	355	379/28	355-B	BUV395
	Ultra-violet	355	450/50	355-A	DAPI, L/D blue, Zombie UV, Hoechst 33342
	Violet	405	450/50	405-F	Pacific Blue, BV421, Horizon V450, eFluor450
	Violet	405	525/50	405-E	L/D Aqua, BV510, AmCyan
	Violet	405	610/20	405-D	BV605, SB600
	Violet	405	660/20	405-C	BV650, SB645
	Violet	405	710/50	405-B	BV711, SB702
	Violet	405	780/60	405-A	BV786, SB780
	Blue	488	530/30	488-D	FITC, AF488, GFP, CFSE, Fluo-4
	Blue	488	575/26	488-C	PE, dTomato, RFP, PI
	Blue	488	695/40	488-B	PerCP, PerCP-Cy5.5, PerCP-eFluor710, 7AAD
	Blue	488	780/60	488-A	PE-Cy7
	Red	633	660/20	633-C	APC, AF647, DRAQ5
	Red	633	720/40	633-B	AF700
	Red	633	780/60	633-A	APC-Cy7, APC-H7, APC-Fire750, APC-eFluor 780, DRAQ7

\*BV = Brilliant Violet; SB = Super Bright; AF = Alexa Fluor; L/D = Live/Dead.

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### Analyzers

#### NovoCyte Opteon

NovoCyte Opteon spectral analy

Agilent

The **NovoCyte Opteon** spectral analyzer (Agilent) is equipped with 5 lasers (355, 405, 488, 561, and 640 nm), 70 fluorescence channels, and 3 light scatter detectors (FSC, SSC blue and SSC violet).

- Opteon includes a robust autosampler that supports both standard FACS tubes (via a 40-tube rack) and a wide range of plate formats, including deep-well 384-well plates.

- Theoretical limit of fluorochromes detectable: 68 different fluorochromes per sample

- **Software: NovoExpress**

- Capability of performing autofluorescence extraction (cellular autofluorescence can be handled as multiple distinct spectral signatures).

Opteon can handle all complex pannels currently run on the Aurora analyzers.



ARC 1207

Laser	Ex.(nm)	Em. (nm)	Channel	Fluorochromes
UV	349	380/17	UV380	Spark UV 387, mFluor UV375
	349	424/18	UV424	BUV395, Spark Plus UV 395, CellTrace Blue, StarBright UV 400
	349	440/18	UV440	
	349	455/12	UV455	
	349	469/16	UV469	
	349	508/17	UV508	LD Blue, Zombie UV, CellTrace Calcein Blue, DyLight350, eFluor455
	349	525/17	UV525	BUV496, DAPI, Hoechst 33342, StarBright UV510, Cfluor UV515
	349	543/18	UV543	
	349	582/19	UV582	BUV563, cFluor UV570, StarBright UV575
	349	600/16	UV600	
	349	618/20	UV618	BUV615, cFluor UV610, StarBright BUV605
	349	661/22	UV661	BUV661, cFluor UV670, StarBright UV665
	349	681/19	UV681	
	349	700/18	UV700	
	349	717/17	UV717	
	349	735/18	UV735	BUV737, cFluor UV745, StarBright UV740
	349	757/26	UV757	NovaFluor UV765
349	784/28	UV784		
349	815/34	UV815	BUV805, cFluor UV790, StarBright UV795	
Violet	405	424/14	V424	BV421
	405	440/18	V440	AF405, Super Bright 436, Zombie Violet, cFluor V420, Spark V423
	405	455/12	V455	BFP, CellTrace Violet, cFluorV450, LD Violet, PacBlue, VioBlue
	405	469/16	V469	SYTOX Blue
	405	508/17	V508	BV480, AmCyan, CFP, cFluorV505, mCerulean3, VioletFluor500
	405	525/17	V525	cFluor V515, Sapphire, SBV515, MultiDot 520
	405	543/18	V543	BV510, LD Aqua, LD Yellow, Zombie Aqua, eFluor506
	405	582/19	V582	BV570, Zombie Yellow, PacOrange, Spark Violet 538, cFluorV547
	405	600/16	V600	Qdot 585
	405	618/20	V618	BV605, SB600, cFluor V605, cFluorV610, Vio Bright V600
	405	661/22	V661	BV650, SB645, cFluor V670, SBV670
	405	681/19	V681	NovaFluor Violet 690
	405	700/18	V700	BV711, SB702, cFluor V715, SBV710
	405	717/17	V717	
	405	735/18	V735	
	405	757/26	V757	BV750, cFluor V755, SBV760
	405	784/28	V784	BV785, BV786, SB780, cFluor V780, SBB765, SBV790
405	815/34	V815	LD NIR 876, NovaFluor Violet 800	

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

Laser	Ex.(nm)	Em. (nm)	Channel	Fluorochromes
Blue	488	508/17	B508	BB515, CellTrace Calcein Green, NovaFluor Blue 510, GFP
	488	525/17	B525	FITC, AF488, CFSE. CellTracker Green, Kiravia Blue, Zombie Green
	488	543/18	B543	LD Green, MitoTracker Green, SYTOX Green, Spark Blue 550, YFP
	488	582/19	B582	Spark Blue 574, iFluor 532
	488	600/16	B600	NovaFluor Blue 585
	488	618/20	B618	BB630 MitoSOX Red, NovaFluor Blue 610, Real Blue 613
	488	661/22	B661	BB660, NovaFluor Blue 660-120S, mFluor Green 620
	488	681/19	B681	PerCP, cFluor B675, SBB675
	488	700/18	B700	PerCP-Cy5.5, BB700, cFluor B690, Nova Fluor 690, SBB700
	488	717/17	B717	PerCP-eFluor 710, PerCP-Vio 700, RB705
	488	735/18	B735	
	488	757/26	B757	BB755, RB744
	488	784/28	B784	NovaFluor Blue 760
	488	815/34	B815	PerCP-Fire 780, PerCP-Fire 780, Real Blue 780, Brilliant Blue 790
Yellow-green	561	582/19	YG582	PE, AF546, AF555, AF561, CellTrace Yellow, Cy3, tdTomato, DsRed
	561	600/16	YG600	Spark YG 593, CF583, NovaFluor Yellow 590, RFP, pHrodo Red
	561	618/20	YG618	PE-CF594, PE-Dazzle, PE-TxRed, LD Red, mCherry, Real Yellow 610
	561	661/22	YG661	7-AAD, PE-Fire 640, PI, NovaFluor Yellow 660, mKate, mPlum
	561	681/19	YG681	PE-Cy5, cFluor BYG667, Super Bright Yellow 665
	561	700/18	YG700	PE-Cy5.5, NovaFluor Yellow 690
	561	717/17	YG717	PE-Fire 700, PE-AF 700, NovaFluor Yellow 730, Real Yellow 703
	561	735/18	YG735	cFluor BYG750, PE-Fire 744
	561	757/26	YG757	
	561	784/28	YG784	PE-Cy7, PE-Vio 770, cFluor BYG781, Real Yellow 775
561	815/34	YG815	PE-Fire 810	
Red	637	661/22	R661	APC, CellTrace Far Red, cFluor R659, CF633, SYTOX Red
	637	681/19	R681	AF647, APC-Cy5, LD Far Red, eFluor660, NovaFluor Red 660
	637	700/18	R700	AF660, APC-Cy5.5, DRAQ5, DRAQ7, Spark NIR 685
	637	717/17	R717	AF700, AF680, APC-AF700, Ghost Dye Red 710, Spark Red 718
	637	735/18	R735	Live Dead Scarlet, NovaFluor Red 725
	637	757/26	R757	Zombie NIR, LD NIR
	637	784/28	R784	APC-Cy7, APC-Fire 780, APC-Fire 750, eFluor 780, Ghost Dye Red
	637	815/34	R815	AF790, APC-Fire 810, cFluor R840, StarBright Red 815

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### Imaging system

Evos FL Auto	Imaging system			ThermoFisher
<i>Light cubes:</i>	Ex (nm)	Em (nm)	Fluorochromes	
<i>DAPI</i>	357/44	447/60	DAPI, Hoechst	
<i>BFP</i>	392/23	447/60	BFP	
<i>GFP</i>	470/22	510/42	GFP, AF488	
<i>YFP</i>	500/24	524/27	YFP	
<i>RFP</i>	531/40	593/40	RFP, AF546, DsRed, Cy3	
<i>Texas Red</i>	585/29	624/40	Texas Red, AF568, AF594, MitoTracker Red, mCherry, Cy3.5	
<i>Cy5</i>	628/40	692/40	AF647, AF660, DRAQ5, Cy5	



ARC 1207

Evos FL Auto is a fully-automated, inverted, multi-channel fluorescence / transmitted light imaging system.

- Long working distance objectives: 1.25x, 4x, 10x, 20x, 40x
- Color camera for bright field and phase imaging.
- Monochrome camera for fluorescence detection.
- Motorized 3D stage.
- Built-in software for counting cells, scanning slides or plates, time-lapse imaging, Z stacks.
- All light cubes may be swapped between Evos and the Countess.

### Cell counter

Countess II FL	Cell counter	ThermoFisher
<ul style="list-style-type: none"> <li>• Automatic hemocytometer based on bright field and fluorescence imaging.</li> <li>• Count live / dead cells and measure average cell size in as little as 10 seconds.</li> <li>• Reusable slide available in the flow lab.</li> <li>• Compatible single-use slides: Invitrogen cat.# C10228; BioRad cat.# 1450011</li> <li>• Up to two light cubes can be installed on the Countess for fluorescence detection.</li> </ul>		



ARC 1207

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### Sorters

#### Aurora CS 1 & 2

Cell sorter

BD Biosciences



Aurora CS 1 is located in ARC 1207I

Aurora CS 2 is located in ARC 1207 A/B

**Aurora CS** is a spectral **cell sorter** with 5 lasers (355, 405, 488, 561, and 640 nm), 64 fluorescence channels and 3 light scatter detectors (FSC, SSC blue and SSC violet).

- Very complex and also very simple panels (e.g. GFP) sorts can be performed.
- Two nozzle sizes are available (70 and 100 µm).
- Four-way sorting can be done in FACS tubes; six-way sorting only in Eppendorf tubes; two-way sorting in 15 mL conical tubes.
- The optical configuration for the Aurora analyzer (see pages 1 & 2) also applies to Aurora CS.

#### FACSJazz

Cell sorter

BD Biosciences



ARC 1207 A/B

Laser	Ex (nm)	Em (nm)	Fluorochromes
Blue	488	530/40	FITC, AF488, GFP, YFP
Blue	488	670LP	PerCP-Cy5.5, 7AAD, PE-Cy7
Yellow-Green	561	585/29	PE, dTomato, DsRed, RFP, Cy3
Yellow-Green	561	610/20	mCherry, PE-CF594, PE-Texas Red, PI
Red	640	660/20	APC, AF647, DRAQ5, Cy5
Red	640	750LP	APC-Cy7, APC-H7, APC Fire750, DRAQ7

#### FACSAria Fusion

Cell sorter

BD Biosciences



ARC 1207H

Laser	Ex (nm)	Em (nm)	Fluorochromes
Violet	405	450/50	Pacific Blue, BV421, Horizon V450, eFluor450, BFP
Violet	405	525/50	L/D Aqua, BV510, AmCyan, Qdot 525
Violet	405	610/20	BV605, SB600
Violet	405	660/20	BV650, SB645
Violet	405	710/50	BV711, Qdot 705
Violet	405	780/60	BV786
Blue	488	530/30	FITC, AF488, GFP, CFSE, Fluo-4
Blue	488	695/40	PerCP, PerCP-Cy5.5
Yellow-Green	561	582/15	PE, dTomato, mOrange, RFP
Yellow-Green	561	610/20	PE-Texas Red, PI, mCherry, PE-CF594
Yellow-Green	561	670/14	PE-Cy5, 7AAD
Yellow-Green	561	780/60	PE-Cy7
Red	640	670/30	APC, AF647, DRAQ5, Cy5
Red	640	730/45	AF700
Red	640	780/60	APC-Cy7, APC-H7, APC Fire750, DRAQ7

# FLOW CYTOMETRY CORE

## Instrument Optical Configuration

### FACSAria II

Cell sorter

BD Biosciences



ARC 1207H

Laser	Ex (nm)	Em (nm)	Fluorochromes
Blue	488	530/30	FITC, Alexa Fluor 488, GFP, CFSE, Fluo-4
Blue	488	675/20	PerCP, PerCP-Cy5.5
Yellow-Green	561	585/15	PE, dTomato, mOrange
Yellow-Green	561	610/20	mCherry, PE-CF594, PE-Texas Red, PI
Yellow-Green	561	710/40	PE-Cy5, 7AAD, PE-AF647, mPlum
Yellow-Green	561	780/60	PE-Cy7
Red	640	675/20	APC, Alexa Fluor 647, DRAQ5
Red	640	780/60	APC-Cy7, APC-H7, APC-Fire750, DRAQ7

\*FACSAria II is not enclosed in a biosafety cabinet and may only be used with samples that require biosafety level 1 containment

### FACSMelody

Cell sorter

BD Biosciences



ARC 1104C

Laser	Ex (nm)	Em (nm)	Fluorochromes
Violet	405	448/45	Pacific Blue, BV421, Cascade Blue, BFP
Violet	405	528/45	L/D Aqua, BV510, AmCyan, CFP
Violet	405	755LP	BV785
Blue	488	527/32	FITC, GFP, YFP, Alexa Fluor 488, CFSE
Blue	488	586/42	PE, PI
Blue	488	700/54	PerCP, PerCP-Cy5.5, 7AAD
Blue	488	783/56	PE-Cy7
Red	640	660/10	APC, AF647, DRAQ5, Cy5
Red	640	783/56	APC-Cy7, APC-H7, APC-Fire750, DRAQ7

\*BV = Brilliant Violet; SB = Super Bright; AF = Alexa Fluor; L/D = Live/Dead.

### Data analysis workstation



ARC 1207i

A Data Analysis Workstation is available for an hourly fee.

The following software packages are installed:

- FlowJo
- FCS Express
- CytExpert
- SpectroFlo

### Check our iLab website for additional information

[https://my.ilabsolutions.com/service\\_center/show\\_external?id=4691](https://my.ilabsolutions.com/service_center/show_external?id=4691)

