



Flow Cytometry Core Facility

[Home](#)
[Instruments available](#)
[Flow cytometry](#)
[Uses of flow cytometry](#)
[Flow sorting](#)
[Links](#)
[Contacts](#)

SMD > ICMS > Flow Cytometry Core Facility > Instruments available >

In this area :

Becton Dickinson FACScan Analyser



Uses of flow cytometry:

- Multi colour analysis
- Viability
- Cell cycle analysis
- Fluorescent proteins
- Flow FISH
- Apoptosis
- Autophagy
- Necroptosis
- Oncosis
- Necrosis
- Functional analysis
- Rare event analysis
- Translocation
- FRET
- Bacteria
- CBA
- FlowCytoMix
- Insects
- Neurons
- NADH
- PrimeFlow RNA
- Smartflare kits
- Muse kits
- Exosomes

Instruments available

[BD FACSAria sorter](#)

[BD LSRII analyser](#)

[ACEA Novocyte](#)

[BD FACS Canto II](#)

[Millipore Muse](#)

[BD FACScan analyser](#)

[LED Microscope](#)

Data analysis

Flow cytometry

Uses of flow cytometry

Flow sorting

Research projects

Publications

Posters

Links

Contacts

News

Free Reagent Shop

Specification	Comments
<i>Performance</i>	
Fluorescence sensitivity	<2,000 molecules of equivalent soluble fluorescein
Fluorescence resolution	< 3% for PI labelled chick erythrocyte nuclei
Forward and side scatter sensitivity	Sensitivity enables the separation of fixed platelets from noise
Forward and side scatter resolution	5,000 events/sec
<i>Excitation optics</i>	
Optical platform	Fixed optical assembly,
Lasers	20mW Coherent 488nm, air cooled, argon ion laser FITC (530/30nm); PE (575/26nm), PerCP, or PE-Cy5, or PE-Cy5-5 or PE-Cy7 (650nmLP)
<i>Emission optics</i>	
Optical Coupling	Quartz cuvette is coupled to emission lens by refractive index-matching optical gel for optimum collection efficiency
Fluorescence Detectors	3 PMTs
Three fluorescence detectors	High performance, high dynamic range photomultipliers with filters for FITC, PE and PE-Cy5 or PE-Cy7
<i>Signal processing</i>	
Workstation resolution	Four decades for peak detection,
Data acquisition channels	Five acquisition channels
Dynamic range	12-bit data acquisition 1,024 linear channels displayed in a 4-decade logarithmic display
Pulse processing	Not available
Time	Time available correlated to any parameter
Analogue Compensation	Electronics provides analogue correction of spectral overlap
<i>Data management</i>	

Central processing	Intel processor
CellQuest Pro II	Apple Mac G5 computer with OSX operating system
Monitor	15-inch LCD monitors
Data File Structure	Flow Cytometry Standard 2.0

[Top](#)

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