

EQUIPMENT AND SERVICE GUIDE CYTOMETRY

EQUIPMENTS

Equipment	Description	Manufacturer	Self-service equipment	Equipment with service
Cytofluorometer FACS LSR II	Cytometer 3 lasers (V405, B488, R633) 16 parameters, 14 colors 6V, 5B, 3R	Becton Dickinson Biosciences	yes	yes
Cytofluorometer FACS LSR II	Cytometer 4 lasers (V405, B488, YG561, R640) 18 parameters, 16 colors 6V, 2B, 5YG, 3R		yes	yes
Cytofluorometer FACS LSR II	Cytometer 5 lasers (UV355,V405, B488,YG561,R633) 20 parameters, 18 colors 3UV, 6V, 2B, 4YG, 3R		yes	yes
Cytofluorometer FACS FORTESSA	Cytometer 5 lasers (UV355,V405, B488,YG561,R640) 20 parameters, 18 colors 3UV, 6V, 2B, 4YG, 3R		yes	yes
Cytofluorometer FACS SYMPHONY	Cytometer 6 lasers (UV355,V405, B488,YG561,R640, IR785) 31 parameters, 29 colors 7UV, 8V, 5B, 5YG, 3R,1IR		yes*	yes
Cytofluorometer FACS Aria IIIu Cells sorters	Cytometer 4 lasers (V405, B488, YG561, R633) 17 parameters, 15 colors 5V, 2B, 5YG, 3R		no	yes
Cytofluorometer FACS Aria IIIu Cells sorters (NC3)	Cytometer 4 lasers (V405, B488, YG561, R633) 17 parameters, 15 colors 5V, 2B, 5YG, 3R		no	yes

* To validate, special conditions apply

SERVICES

Scientific core facilities of the CRCHUM

Cytometry

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Cytometers analyzers

We have five cytometers for analyzing size, granularity and fluorescence emitted from cells or particles depending on the number of parameters desired.

The FACS SYMPHONY is a state of the art equipment, unique in Montreal, it is reserved for qualified users.

Possible applications: immunophenotyping, cytokine quantification, cell cycle, proliferation, apoptosis, protein interaction (FRET), mitochondrial membrane potential measurements, oxidative stress measurement.

Each equipment can be used in self-service mode. The laboratory also offers turnkey services.

Cell sorting cytometers

We have two ARIAIIIu BD cytometers for cell sorting according to size, granularity and fluorescence emitted from cells or particles.

These two devices are located in biological safety cabinets and one of them is in containment level 3 enclosure, which allows the sorting of infectious cells.

Possible applications: high throughput sorting (50 million cells / h), up to four sub-populations of infectious or non-infectious cells, plate sorting, indexed or not, and slides.

The service is offered only by platform staff.

Analysis of results

Data analysis software (FlowJo and Diva8) allow us to offer a service of analysis of data acquired with cytometers.