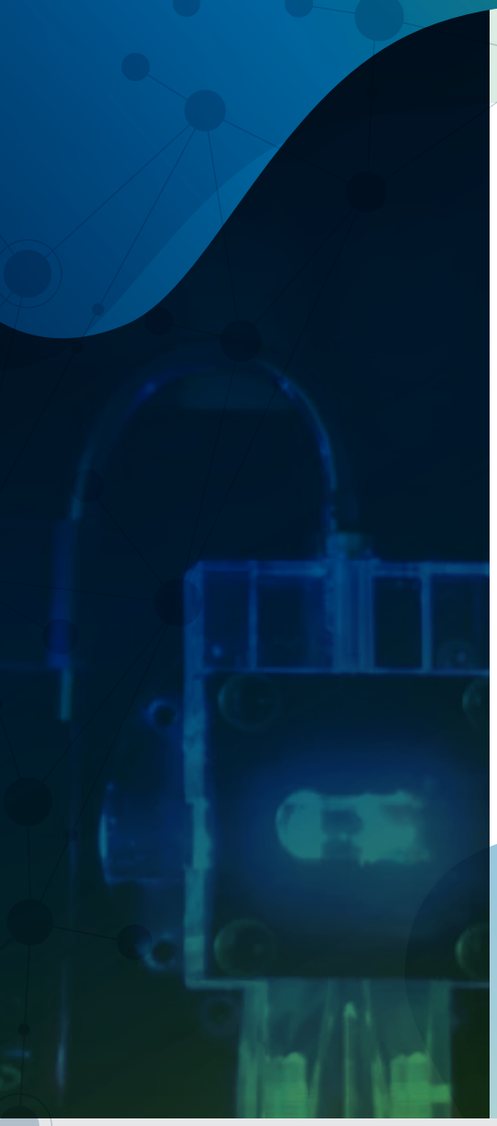
CORE FACILITIES

CYTOMETRY



Gaël Dulude
Core Facility Manager

The cytometry core facility offers a full range of cell analysis and sorting services.

The simultaneous analysis of functional parameters and surface markers makes it possible to identify and study cellular immunity and viral pathogenesis mechanisms.

High-throughput sorting is used to purify subsets of primary cells (peripheral blood or other tissues) or cell lines.

SERVICES

SELF-SERVE MULTIPARAMETER CELL ANALYSIS

- Use of standard or spectral cytometers equipped with four to six lasers
- Data analysis stations

MULTIPARAMETER CELL ANALYSIS WITH SERVICE

- Personalized multiparameter cell analysis or cell sorting services in standard, spectral and biosafety level 3 (BSL3) mode
- Cell sorting from one to four populations simultaneously
- Possibility of sorting on different supports, including plates of different formats, microscopy slides and 0.5 to 15 ml tubes

TRAINING

- Basics of cytometry, theory and practice. This training is required to use a self-service cytometer

RESEARCH IN ACTION

The recent acquisition of a Cytek Aurora spectral analyzer and Aurora CS high-throughput spectral cell sorter has enabled our core facility to be one of the first in Canada to offer research teams a high-throughput cell analysis and sorting service in spectral mode.

They can thus carry out analyses using more than 40 colours/parameters and retrieve these same individual cells in order to carry out their analyses.

HIGHLIGHTS

Our core facility is one of the few in Canada to offer a high-throughput cell sorting service in a biosafety level 3 (BSL3) zone, which allows us to sort the cells of people infected with HIV, HCV and SARS-CoV-2.

The cytometry platform in a nutshell:

33 research teams and **245** supported users

Over 140 cell sortings per year

334 hours of analysis on average performed on the analyzers per month

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Core Facilities
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