Flow, spectral and imaging cytometry as well as immunoassay system are powerful tools used to measure different aspects of a cell or particles in real time and high throughput. They are used to quantify multiple markers on cells, with the option of simultaneously sorting sub-populations of interest for cellular or molecular downstream applications.

The Cytometry platform of the Institut Curie offers cytometry technology (service or collaboration) for the benefit of Institut Curie scientists and more broadly to the national, international, public, and private scientific community. It is a shared resource facility available for collaboration with researchers through immunoassay system, flow, imaging, and spectral cytometry.

Instruments present within the Cytometry platform of the Institut Curie offer the possibility to perform multiple measurements including deep immunophenotyping, cell cycle, apoptosis/necrosis, calcium flux, proliferation, secretion, microparticles quantification, rare events detection, endocytosis, phagocytosis, cell-cell interaction, in situ hybridization among other.

Analysis can be coupled with sorting technology, which physically isolates populations of interest for downstream applications including cell culture, molecular and cellular analysis, single cell cloning and many more.
The Cytometry Platform provides critical insight and complete scientific overview on the managed research projects. Mastering state-of-the art technologies and efficient big data management, the Cytometry Platform is dedicated to conduct challenging research, translational and clinical projects as well as to provide training, analysis and guidance to collaborating partners in multiple fields according to the highest standards.

**Functions**

- Cell sorting
- Training users on equipment and software
- Support for data acquisition and analysis
- Advice on cell preparation
- Interpretation of results, troubleshooting
- Support for preparing manuscripts, i.e. figures, documents, and methods

**Location**

Platform: Hospital Building, 6th floor, 6A-11/12, 26 rue d’Ulm, 75005 Paris

Offices: Hospital Building, 6th floor, 6A-20/28, 26 rue d’Ulm, 75005 Paris

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**Key publications**

Year of publication 2017

Zofia Maciorowski, Pratip K Chattopadhyay, Paresh Jain (2017 Apr 4)

*Basic Multicolor Flow Cytometry.*

*Current protocols in immunology:* 5.4.1-5.4.38: [DOI: 10.1002/cpim.26]