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Flow cytometry measures fluorescence and light diffraction of large numbers of cells or particles at high speed. Flow cytometry is used to quantify multiple markers on cells, with the option of simultaneously sorting sub-populations of interest.

The primary advantage of flow cytometry is how quickly it produces data for large numbers of cells, allowing for complex and/or rare sub-populations of cells to be analyzed and sorted so that they can then be cultured or analyzed with molecular biology tools.

The cells in suspension may be simultaneously marked with up to 26 fluorochromes, each identifying a molecule of interest. The marked cells flow past a laser and, for each cell and each fluorochrome, the fluorescence intensity is quantified. Fluorescent probes can be used to detect various parameters such as membrane potential, pH, cell cycle (proliferation, apoptosis).

The flow cytometry core facility performs cell sorting, and trains people to independently use the cytometers and analysis software.

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:

Plateforme de cytometrie, 6th floor, 6A-11, 26 rue d'Ulm, Paris

Contact:

+33 1 56 24 58 01 (bureau) ou +33 1 56 24 58 02 (lab)

email: cytometrie.paris@curie.fr

Self serve analysers:

In order to have access to the cytometers, users must be trained by us first. After training you will have access to booking the cytometers on OpenIris.

Please contact us for training. In addition to the practical training, we give flow cytometry theory courses twice a year.

Sorting:

Please call us for an appointment

Also available in the Clinical Immunology unit (2nd floor: 26 Rue d'Ulm):

- One self-service AutoMACS magnetic bead-based cell sorter
- One Luminex analyzer, for quantifying multiple analyses of very small volumes in a homogeneous phase, with an ELISA fluorescent bead system.

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