

FACS Fortessa Flowcytometry

Flow cytometer with the ability to acquire parameters for a large number of colors. It uses fixed-alignment lasers that transmit light through a flow cell to configurable octagon and trigon detector arrays. These detectors collect and translate the resulting fluorescence signals into electronic signals.

Cytometer electronics convert these signals into digital data. Can be configured with up to 7 lasers and 18 parameters.



FACSAria III

The FACSAria III (both analysis & sorter) is powerful and expandable. The systemcan mount up to six lasers, so you can choose the configuration that meets application, budget, and site requirements. An innovative new X-mount optical plate makes this possible. It accommodates easy expansion to six lasers and four spatially separated beam spots. Wavelength choices now include 561nm and 445-nm lasers, as well as the 488-nm, 633-nm, 405-nm, and 375nm lasers. Mount up to 20 detectors, and measure a maximum of 18 colors simultaneously.

Clab.ksu.edu.sa

clab@ksu.edu.sa

Flowcytometry Unit Ground Floor Lab No.85

Building 13



What is flowcytometry?

Flowcytometry is a technology that simultaneously measures and then analyzes multiple physical characteristics of single particles, usually cells, as they flow in a fluid stream through a beam of light.

The properties measured include a particle's relative size, relative granularity or internal complexity, and relative fluorescence intensity.



Applications of Flowcytometry

- Cell size.
- Cytoplasmic granularity.
- Cell surface antigens (phenotyping).
- Apoptosis.
- Intracellular cytokine production.
- Cell cycle, DNA content, composition, synthesis.

Type of samples:

- Plant tissue.
- Animal tissue.
- Blood
- Cerebrospinal fluid (CSF).
- Bacteria



