

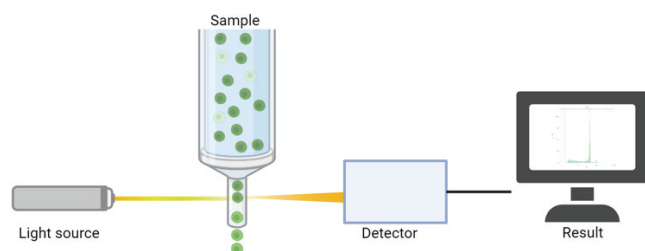
Flow cytometry services

An essential technique to optimize your plant breeding and quality control

Introduction

Flow cytometry is a technique which can count and analyse particles in a fluid stream. The sample is stained with a specific dye. Then it flows through the machine cell by cell. A monochrome light shines at the flowing liquid. The type, size, fluorescence or other properties of the particle in the light beam can be determined in this way.

This technique can be used for many different applications in plant breeding and seed quality control.



A schematic overview of the flow cytometry technique.

Iribov. An expert in flow cytometry

Since 1992, Iribov has been a trusted partner providing its expertise in plant-related flow cytometry to many agricultural companies internationally. Iribov is also a trusted supplier of flow cytometry units, partnering with Quantum analysis (Germany).

Ploidy Analysis

Dihaploid production	→	For inbred lines
Polyploidisation	→	For double flowers
Interspecific crosses	→	Success rate
Sterile plants/seeds	→	To protect property

DNA amount measurement

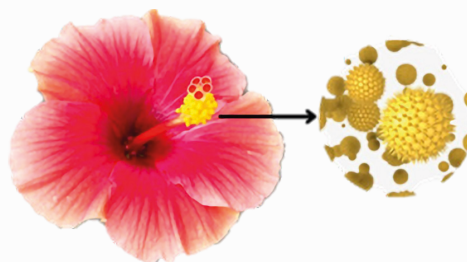
Interspecific crosses	→	Success rate
Aneuploid detection	→	QC (brassica) seed



Normal cauliflower (left) and aneuploid cauliflower (right).

Pollen vitality

- ✓ Finding the optimal period for pollination
- ✓ Optimize pollen storage conditions



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