Flow cytometry for high-throughput, high-content screening.

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# Flow cytometry for high-throughput, high-content screening

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#### **Abstract**

Flow cytometry is a mature platform for quantitative multi-parameter measurement of cell fluorescence. Recent innovations allow up to 30-fold faster serial processing of bulk cell samples. Homogeneous discrimination of free and cell-bound fluorescent probe eliminates wash steps to streamline sample processing. Compound screening throughput may be further enhanced by multiplexing of assays on color-coded bead or cell suspension arrays and by integrating computational techniques to create smaller, focused compound libraries. Novel bead-based assay systems allow studies of real-time interactions between solubilized receptors, ligands and molecular signaling components that recapitulate and extend measurements in intact cells. These new developments, and its broad usage, position flow cytometry as an attractive analysis platform for high-throughput, high-content biological testing and drug discovery.



### Abbreviations

**1º2AR**, 1º2 adrenergic receptor; **FPR**, formyl peptide receptor; **GFP**, green fluorescent protein; **GPCR**, G-protein-coupled receptor; **HT**, high throughput; **VS**, virtual screening

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DNA measurement and cell cycle analysis by flow cytometry, sointervalie cumulatively.

Flow cytometry for high-throughput, high-content screening, orthogonal determinant is translucent to hard radiation.

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