

Flow Cytometry Market is Expected to Registering a CAGR of 16.0% by 2022

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Flow cytometry is a biophysical, laser based analytical technology that measures and analyses several physical characteristics of cells or particles suspended in a fluid, when passed through a laser beam. Flow cytometry has various advantages over traditional analytical methods such as ELISA, which include its ability to deliver precise and accurate results and lesser time consumption at about same prices. The flow cytometry technology is widely used in the various fields of academic and clinical research, and diagnosis of diseases such as cancer, HIV and hematological malignancies. Rising count of patients suffering from HIV and cancer and increasing use of flow cytometry in hospitals and diagnostic centers, has created an impending need of flow cytometry in the effective diagnosis and monitoring of diseases.

[World flow cytometry market](#) is set to grow at a remarkable pace in the coming years, attributed to technological advancements and high adoption in various research and diagnostic applications. In addition, the advent of flow cytometry technology in novel research applications such as cytogenomics, proteomics and marine biology would further supplement the market growth. Further, rising incidence rates of diseases such as cancer and HIV are likely to boost the adoption of flow cytometry technology across diagnostic applications. On the other hand, factors such as high cost associated with instruments and reagents, lack of awareness among potential end users and the limited availability of technical expertise are likely to impede the market growth. The preference of flow cytometry in drug discovery & development and diagnostics is expected to provide numerous growth opportunities.

The world flow cytometry market is estimated to reach \$7.0 billion by 2022, registering a CAGR of 16.0% over the forecast period. The report segments the world flow cytometry market based on components, technologies, applications, end users and geography. Based on components, the market is segmented into instruments, reagents, software and services. Instruments accounted for the highest revenue-generating segment in 2014, owing to the technological advancements, demand for highly efficient replaceable components and widening scope of flow cytometry applications in newer diseases. Based on technology, the market is segmented into bead based and cell based technologies. Cell based flow cytometry would constitute the highest revenue

generating segment throughout the forecast period due to its widespread use across all the applications. Based on application, world flow cytometry market is segmented into academic and clinical research, and diagnostic applications. Academic and clinical research application was the major revenue generating segment in 2014, however, diagnostics segment is projected as the fastest growing segment. The world flow cytometry end users market is segmented into commercial organizations, medical schools and research labs, hospitals, academics and others. Commercial organizations was the highest revenue generating end-user segment in 2014, due to high adoption of flow cytometry in drug discovery process and clinical research.

Based on geography, the market is segmented across North America, Europe, Asia-Pacific and LAMEA. North America was the leading region in 2014, supplemented by rapid technological advancements, high R&D investment and widespread use of flow cytometry in research and diagnostic activities. Asia Pacific region would emerge as the most lucrative market over the forecast period owing to outsourcing of R&D activities in this region and increasing incidences of diseases such as cancer and HIV.

The report provides a comprehensive analysis of the leading companies operating in the world flow cytometry market. Key companies profiled in the report are Danaher Corporation (Beckman Coulter), Becton, Dickinson and Company, EMD Millipore, Sysmex Corporation, Affymetix Inc., Luminex Corporation, Thermo Fischer Scientific, Bio-Rad Laboratories, Inc., Miltenyi Biotec, Inc. and Agilent Technologies, Inc.

KEY MARKET BENEFITS:

The study provides an in-depth analysis of the world flow cytometry market with current and future trends to elucidate the imminent investment pockets in the market.

The report provides a quantitative analysis through 2014-2022, which would enable the stakeholders to capitalize on prevailing market opportunities.

Extensive analysis of the world flow cytometry market, by component, helps in understanding the components of the flow cytometer that are currently used along with the variants that would gain prominence in the future

Competitive intelligence highlights the business practices followed by leading market players across various geographies

SWOT analysis enables to study the internal and external environment of the leading companies for strategy formulation

KEY MARKET SEGMENTS:

The world flow cytometry market is segmented as:

World Flow Cytometry Market By Component

Instruments

Cytometry platforms

Sorters

Analyzers

Replaceable components

- Filter
- Laser
- Detectors
- Others
- Accessories
- Reagents and consumables
- Antibodies
- Dyes
- Beads
- Solutions
- Buffers
- Others
- Software
- Services

World Flow Cytometry Market By Technology

- Bead based flow cytometry
- Cell based flow cytometry

World Flow Cytometry Market By Application

- Academic and clinical research applications
- Cell cycle analysis and cell proliferation
- Apoptosis
- Sorting and screening
- Transfection and cell viability
- Others
- Diagnosis applications
- Organ transplantation
- Hematological malignancies
- Cancer and solid tumors
- Immunodeficiency diseases- HIV infection
- Others

World Flow Cytometry Market By End users

- Commercial organizations
- Medical schools and clinical labs
- Hospitals
- Academics
- Others

World Flow Cytometry Market By Geography

- North America
- Europe

Asia-Pacific
LAMEA

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