

# **Global Flow Cytometry Market Size Study & Forecast, By Product (Instruments, Reagents & Consumables, Software, Accessories, Services), By Technology (Cell-based, Bead-based), By Application (Research, Industrial, Clinical), By End-use (Commercial Organizations, Hospitals, Academic Institutes, Clinical Testing Labs), and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Flow Cytometry Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Flow cytometry is a pivotal technique in isolating cells from diverse mixtures, facilitating cell sorting, quantification, protein analysis, and engineering. It serves to scrutinize cell surface and intracellular molecule expressions, delineate diverse cell types within heterogeneous populations, ensure the purity of isolated subsets, and gauge cell dimensions and volume. This method enables the concurrent assessment of numerous parameters per cell. Employing lasers to generate light, flow cytometers disperse this light through cell samples, capturing the resulting patterns via detectors and translating them into analyzable signals and measurements. Flow cytometry is a versatile technique widely used in various fields such as immunology, hematology, oncology, and microbiology. It enables the analysis of cells and particles based on their physical and chemical properties, including size, granularity, and fluorescence. Moreover, the increasing prevalence of chronic diseases, growing adoption of personalized medicine, and growing expanding biotechnology and pharmaceutical industries are anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

Additionally, flow cytometry enables the characterization of individual cells and

subpopulations, making it an essential tool for personalized medicine approaches. The rising adoption of personalized medicine, coupled with advancements in single-cell analysis technologies, drives the demand for flow cytometry systems. According to Statista, in 2017, the global personalized medicine market was valued at USD 1,580 billion and in 2022 the market reached USD 2,770 billion. As a result, the growing demand for personalized medicine is anticipated to support the market growth. Moreover, the increasing healthcare expenditure and growing adoption of flow cytometry in stem cell research are anticipated to create a lucrative opportunity for the market. However, the lack of awareness about the potential benefits of flow cytometry techniques, and the high cost of the equipment stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Flow Cytometry Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the rising demand for stem cell research, and expansion of biopharmaceutical and biotechnology industries in the region. Whereas the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as cohesive government initiatives and funding, increasing adoption in clinical diagnostics, rising incidence of chronic diseases, expansion of academic and research institutes, and growing awareness and adoption of precision medicine approaches in the Asia Pacific region.

Major market players included in this report are:

Danaher Corp.

Becton, Dickinson, and Company (BD)

Sysmex Corp.

Agilent Technologies, Inc.

Apogee Flow Systems Ltd.

Bio-Rad Laboratories, Inc.

Thermo Fisher Scientific, Inc.

Stratedigm, Inc.

DiaSorin SpA

Sony Biotechnology, Inc.

Recent Developments in the Market:

In September 2022, Becton, Dickinson, and Company introduced BD Research Cloud, an innovative cloud-based software solution designed to optimize the flow cytometry workflow. This platform aims to support scientists across various disciplines, including immunology, virology, oncology, and infectious disease monitoring, enabling them to conduct more efficient experiments and achieve faster results.

Global Flow Cytometry Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product, Technology, Application, End-use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries

involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Instruments

Reagents & Consumables

Software

Accessories

Services

By Technology:

Cell-based

Bead-based

By Application:

Research

Industrial

Clinical

By End-use:

Commercial Organizations

Hospitals

Academic Institutes

Clinical Testing Labs

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

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