

Single-Cell Analysis - Global Market Outlook (2017-2023)

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Abstracts

According to Statistics MRC, the Global Single-Cell Analysis Market is accounted from \$1.46 billion in 2016 to reach \$5.08 billion by 2023 with a CAGR of 19.5%. Factors such as growing occurrence of chronic and infectious disorder, increasing implementation of single cell analysis devices and rising government funding for cell-based research are propelling the growth of the market. However, high initial investment is hampering the market. Development in stem cell research and amalgamation of microfluidics in single-cell analysis provides ample opportunities for the market growth.

Single cell analysis is an upcoming technology that helps entire human genome at a single cell level. This mainly includes genomics, transcriptomics, proteomics, epigenomics, and metabolomics with its sensitivity improved to single cell level. In genomics, latest production methodologies such as next generation sequencing and third generation sequencing play vital roles. The purpose of single cell analysis is mostly to measure and analyze cellular heterogeneity.

By technique, Flow cytometry measures the specific characteristics of a large number of individual cells. It can provide rich data to cell biologists working in a wide range of fields, from molecular interaction to systems biology, from pharmacokinetics to cancer biology, from cell signaling to marine biology to biophysics. Flow cytometry is used in cell-based drug screening research, proteomics, biomarkers and for high-throughput.

North America is anticipated to account for the biggest market share because of increase in government support for R&D and establishment of pharmaceutical and biotechnology companies. APAC is expected to grow at the highest CAGR during the forecast period owing to its increasing healthcare expenditure and rising demand for genetic analysis.

Some of the key players in Single-Cell Analysis market include Thermo Fisher Scientific, Inc., Beckman Coulter, Inc., Qiagen N.V., GE Healthcare, Fluidigm Corporation, Merck KGaA, Bio-Rad Laboratories, Inc., Illumina, Inc., Agilent Technologies, Becton, Dickinson and Company, WaferGen Bio-systems, Inc., Eppendorf AG, NuGEN Technologies, Inc., 10x Genomics and Johnson & Johnson

Cell Types Covered:

Animal Cells

Human Cells

Microbial Cells

Products Covered:

Instruments

Consumables

Techniques Covered:

Next-Generation Sequencing

Flow Cytometry

Microscopy

Mass Spectrometry

Polymerase Chain Reaction

Other Techniques

End Users Covered:

Biotechnology and Pharmaceutical Companies

Cell Banks and IVF Centers

Academic & Research Laboratories

Hospitals and Diagnostic Laboratories

Applications Covered:

Medical Applications

Research Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

U.K

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 7 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

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Supply chain trends mapping the latest technological advancements

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Note: Tables for North America, Europe, APAC, South America and Middle East & Africa Regions are also represented in the same manner as above

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