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Global Single Cell RNA Sequencing (scRNA-seq) Market 2023-2029

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Abstracts

Single cell RNA sequencing (scRNA-seq) is a powerful technique used to study gene expression patterns in individual cells. It offers a high-resolution view of gene expression at the single-cell level, opening up new possibilities for understanding cellular heterogeneity and identifying rare cell populations that are challenging to detect using conventional techniques.

In conventional RNA sequencing techniques, gene expression is measured by analyzing the total RNA of a group of cells. However, this method has limitations since it averages the expression levels of all cells within the sample, leading to the loss of information regarding the differences in gene expression among individual cells. On the other hand, scRNA-seq allows scientists to analyze the expression patterns of thousands of individual cells with high accuracy and specificity, providing a comprehensive view of gene expression in different cell types. This technique utilizes microfluidic devices, droplet technology, or microwell plates to isolate individual cells and profile their transcriptomes, including DNA, RNA, and proteins. The global single cell RNA sequencing market is likely to register a CAGR of over 17.09% with an incremental growth of USD 1,324.0 million during the forecast period 2023-2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global single cell RNA sequencing market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed

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by a detailed analysis of the offerings, workflow, application, end user, and region. The global market for single cell RNA sequencing can be segmented by offerings: consumables, instruments. The consumables segment held the largest revenue share in 2022. Single cell RNA sequencing market is further segmented by workflow: single cell isolation, single cell amplification, sequencing. Among these, the sequencing segment was accounted for the highest revenue generator in 2022. Based on application, the single cell RNA sequencing market is segmented into: oncology, immunology, embryology, neurology, others. The oncology segment captured the largest share of the market in 2022. On the basis of end user, the single cell RNA sequencing market also can be divided into: research organizations, biopharmaceutical companies, others. According to the research, the research organizations segment had the largest share in the global single cell RNA sequencing market. Single cell RNA sequencing market by region is categorized into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America.

The single cell isolation market is further segmented into laser capture microscopy (LCM), flow-activated cell sorting (FACS), magnetic-activated cell sorting (MACS), microfluidics. Globally, the flow-activated cell sorting (FACS) segment made up the largest share of the single cell RNA sequencing market.

Market Segmentation
By offerings: consumables, instruments
By workflow: single cell isolation, single cell amplification, sequencing
By application: oncology, immunology, embryology, neurology, others
By end user: research organizations, biopharmaceutical companies, others
By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The market research report covers the analysis of key stake holders of the global single cell RNA sequencing market. Some of the leading players profiled in the report include 10x Genomics, Inc., Becton, Dickinson and Company, Bio-Rad Laboratories, Inc., BGI Group, Standard BioTools Inc., NanoString Technologies, Inc., Pacific Biosciences of California, Inc., Qiagen N.V., PerkinElmer Inc., Takara Bio, Inc., Thermo Fisher Scientific Inc., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.
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Scope of the Report
To analyze and forecast the market size of the global single cell RNA sequencing

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market.
To classify and forecast the global single cell RNA sequencing market based on offerings, workflow, application, end user, region.
To identify drivers and challenges for the global single cell RNA sequencing market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global single cell RNA sequencing market.
To identify and analyze the profile of leading players operating in the global single cell RNA sequencing market.

Why Choose This Report
Gain a reliable outlook of the global single cell RNA sequencing market forecasts from 2023 to 2029 across scenarios.
Identify growth segments for investment.
Stay ahead of competitors through company profiles and market data.
The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.
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Biopharmaceutical companies
Others

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Europe
Asia-Pacific
MEA (Middle East and Africa)
Latin America

PART 10. KEY COMPANIES

10x Genomics, Inc.
Becton, Dickinson and Company
Bio-Rad Laboratories, Inc.
BGI Group
Standard BioTools Inc.
NanoString Technologies, Inc.
Pacific Biosciences of California, Inc.
Qiagen N.V.
PerkinElmer Inc.
Takara Bio, Inc.
Thermo Fisher Scientific Inc.

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