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Global Single-Cell Multi-Omics Market (2020-2025): Focus on Product Type, Omics Type, Sample Type, Technique, Application, End User, Region, and Competitive Landscape - Analysis and Forecast, 2020-2025

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Abstracts

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Market Report Coverage - Single-Cell Multi-Omics

Market Segmentation

Product Type – Consumables, Instruments, and Software

Sample Type – Human Samples, Animal Samples, and Microbial Samples

Omics Type – Single-Cell Transcriptomics, Single-Cell Genomics, Single-Cell Proteomics

Application – Clinical Research, Translational Research, and Synthetic Biology

Technique – Single-Cell Isolation and Dispensing and Single-Cell Analysis

End User – Academic and Research Institutions, Biopharmaceutical and Biotechnological Companies, Contract Research Organizations, and Other End Users

Regional Segmentation

North America – U.S., Canada

Europe – Germany, France, Italy, U.K., Spain, and Rest-of-Europe

Asia-Pacific – China, Japan, India, Singapore, Australia, and Rest-of-Asia-Pacific (RoAPAC)

Latin America – Brazil, Mexico, and Rest-of-the-Latin America

Rest-of-the-World

Growth Drivers

Increasing number of Large-Scale Genomics Studies Leveraging Single-Cell RNA Sequencing (sc-RNA)

Increasing Adoption of Personalized Medicine for the Screening and Diagnostics of Genetic Disorders

Increasing Disposable Income in Emerging Economies

Market Restraints

High Cost of Single-Cell Analysis and Integration of Data

Limited Availability of Large Online Data Storage and Analysis Platforms

Market Opportunities

Massive Scope for Adoption of Genomic-Based Medicine in Emerging Nations

Requirement for the Development of Advanced Solutions Based on Single-Cell Technology

Increased Use of Single-Cell Technology Solutions for the Development of Therapeutics Drugs and Comprehensive Treatment Plan

Expansion into New Research Application such as Single-Cell Metabolomics

Key Companies Profiled

1CellBio, Inc., Fluidigm Corporation, 10x Genomics, Inc., NanoString Technologies, Inc., Bio-Techne Corporation, Bio-Rad Laboratories, Inc., Mission Bio, Dolomite Bio, Fluxion Biosciences, Berkeley Lights, Inc., RareCyte, Inc., Becton, Dickinson and Company, Takara Bio, Inc., Thermo Fisher Scientific Inc., Namocell, Inc.

Key Questions Answered in this Report:

What are the major market drivers, challenges, and opportunities in the global single-cell multi-omics market?

What is the potential impact of biotechnological advancements in the diagnostic industry among end users such as researchers, pathologists, and laboratory technicians?

What is the current market demand along with future expected demand for the global single-cell multi-omics market?

What are the key development strategies that are implemented by the major players in order to sustain the competitive market?

How is each segment of the market expected to grow during the forecast period from 2020 to 2025 based on the following segments:

product type

omics type

technique

sample type

application

end user

region, namely North America, Europe, Asia-Pacific, Rest-of-the-World (RoW)

Which are the leading players with significant offerings to the global single-cell multi-omics market? What is the expected market dominance for each of these leading players?

Which emerging companies are anticipated to be highly disruptive in the future, and what are their key strategies for sustainable growth in the global single-cell multi-omics market?

Market Overview

BIS Research healthcare experts have found the single-cell multi-omics market to be one of the most rapidly evolving markets, which is predicted to grow at a CAGR of 21.16% during the forecast period, 2020-2025. The market is driven by the need for the development of an advanced solution based on single-cell technology for clinical research in various applications such as cancer, rare disease, cell biology, and synthetic biology, among others.

The market is favored by the development of single-cell technology-based solutions for visualization and analysis of cell heterogeneity, tumor microenvironment, and antibody development. The gradual increase in the prevalence of oncology and rare diseases globally has furthered the single-cell multi-omics market.

Furthermore, several contract research organizations are focusing on the development of single-cell technology-based services, which enable simultaneous analysis of genomics, proteomics, and transcriptomics, providing deeper insights on a disease progression.

Within the research report, the market is segmented on the basis of product type, sample type, omics type, technique, application, end users, and region. Each of these segments covers the snapshot of the market over the projected years, the inclination of the market revenue, underlying patterns, and trends by using analytics on the primary

and secondary data obtained.

Competitive Landscape

The exponential rise in the application of precision medicine on the global level has created a buzz among companies to invest in the development of high-resolution multiplex diagnostics providing information on cellular interaction and tissue heterogeneity to understand disease biology and pathology. Due to technologically advanced solutions and intense market penetration, 10x Genomics, Inc. has been a pioneer and a significant competitor in this market.

Other key players in the market are NanoString Technologies, Inc., RareCyte, Inc., Fluidigm Corporation, Becton, Dickinson and Company, Thermo Fisher Sciences, Fluxion Biosciences, Bio-Rad Laboratories, Inc., Namocell, Inc., 1Cell Bio, Inc., Mission Bio, Berkeley Lights, Takara Bio, Inc., Dolomite Bio, and Bio-Techne Corporation.

On the basis of region, North America holds the largest share of the single-cell multi-omics market due to improved healthcare infrastructure, rise in per capita income, and availability of state-of-the-art research laboratories and institutions in the region. Apart from this, Asia-Pacific is anticipated to grow at the fastest CAGR of 21.53% during the forecast period 2020-2025.

The market utilizes several technologies, such as barcoding, sequencing, mass cytometry, and microscopy, for the development of instruments and assays for single-cell analysis of tissue and cells to gain an understanding of cell heterogeneity and cellular mechanism. Each solution offered by the leading players is the combination of next-generation omics tools for application in several clinical areas, such as oncology, neurology, immunology, and pathology.

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