Single Cell Multiomics Market Size - 2024-2031 | USA & Japan Updates, Growth Forecast & Top Leaders

Single Cell Multiomics Market Size is growing rapidly in 2025, driven by precision medicine, advanced research, and global demand for cell-level insights.

Single Cell Multiomics Market

AUSTIN, TX, UNITED STATES, May 28, 2025 /EINPresswire.com/ -- Single Cell Multiomics Market: A Transformative Leap in Precision Biology

The Single Cell Multiomics Market Size is experiencing remarkable momentum as the world pivots towards personalized medicine and high-resolution biological research. By enabling researchers to analyze multiple molecular layers such as genomics, transcriptomics, proteomics, and epigenomics at the single-cell level, this technology is revolutionizing how we understand complex biological systems.

> The U.S. Single Cell Multiomics Market is booming, driven by advanced research funding, precision medicine demand, and strong biotech presence in oncology and neurology sectors.
>
> *DataM Intelligence*

Market Growth and Future Outlook

The Single Cell Multiomics Market was at a compound annual growth rate (CAGR) of 21.2% throughout the forecast period from 2024 to 2031.

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Looking ahead, the market is projected to maintain a double-digit CAGR through 2030, thanks to ongoing R & D

in precision medicine and drug discovery. Pharmaceutical companies, academic institutions, and biotechnology startups are rapidly adopting multiomics platforms to uncover new biomarkers, therapeutic targets, and mechanisms of disease at an unprecedented level of detail.

Regional Outlook

North America

North America, especially the United States, continues to lead the market, accounting for the largest revenue share. Strong investments in healthcare research, well-established biopharmaceutical infrastructure, and the presence of top-tier players make this region a hotspot for innovation. The U.S. government's consistent support through grants and collaborations is also a major growth driver.

Europe

Europe holds the second-largest share, with countries like Germany, the UK, and France at the forefront. The European Union's focus on integrating multiomics into healthcare initiatives, particularly through Horizon Europe funding programs, has propelled the market forward. Research collaborations between universities and private players are increasing across the region.

Asia-Pacific

Asia-Pacific is witnessing rapid growth, with Japan and China playing key roles. The region's market expansion is driven by enhanced healthcare infrastructure, increased biotech funding, and a rising focus on personalized treatment solutions. The market in Japan, in particular, is being strengthened by collaborations between academic researchers and technology developers.

Leading Companies

Several innovative companies are pushing the boundaries of what's possible in single cell multiomics:

Nanostring Technologies Inc
10X Genomics Inc
BD Biosciences
Berkeley Lights Inc
Cytena
Dolomite Bio
Fluidigm Corporation
Illimina Inc

Qiagen NV
Takara Holdings Inc

Market Segmentation

Based on Type:
Single Cell Genomics

Single Cell Proteomics

Single Cell Transcriptomics

Single Cell Metabolomics

Based on Application Area:
Cancer Research

Cellular Biology

Neurological Studies

Immune System Research

Stem Cell Investigations

Based on Technique Used:
Single-Cell Isolation and Distribution

Single-Cell Examination

Based on End User:
Academic and Research Institutions

Contract-Based Research Firms

Pharmaceutical and Biotechnology Enterprises

Miscellaneous End Users

Based on Geographic Region:
North America

South America

Europe

Asia-Pacific

Middle East and Africa

Latest News of USA

In 2025, the United States has witnessed a surge of developments in the single cell multiomics space, especially across university-led research labs and biotech startups. Earlier this year, a major cancer research institute in Boston announced the integration of a new multiomics sequencing platform capable of profiling 100,000 individual cells simultaneously a record-breaking scale. The technology aims to decode tumor microenvironments to identify novel immune escape mechanisms.

At the same time, a startup headquartered in San Diego secured more than $80 million in Series B funding to advance its AI-driven multiomics technologies.. Their focus is to combine single-cell data with machine learning for predictive modeling in neurodegenerative diseases. The National Institutes of Health (NIH) has also launched a multi-institutional initiative to map the immune system at single-cell resolution using multiomics approaches, setting a new benchmark in immunology research.

Latest News of Japan

Japan is quickly positioning itself as a hub for advanced multiomics research. In early 2025, a renowned research institute in Tokyo launched a collaborative project with local hospitals and biotech firms to develop a national database of single-cell multiomic profiles, focusing on rare genetic disorders and aging-related diseases.

In another key development, a Japanese pharmaceutical giant has invested in a Kyoto-based startup developing single-cell epigenomics tools.This partnership is intended to simplify and accelerate the development of treatments for autoimmune diseases. Moreover, the government’s support for precision medicine and its recent tax incentives for R&D in genomics technologies have significantly improved the environment for startups and research institutions alike.

Japan is also promoting regional academic alliances to foster innovation, encouraging public-private partnerships to accelerate the commercial adoption of multiomics platforms in clinical settings.

Conclusion

The Single Cell Multiomics Market is not just a trend it represents a paradigm shift in biological sciences and healthcare. By offering a holistic view of cell biology at an unprecedented resolution, multiomics is unlocking new dimensions in disease understanding, early diagnosis, and therapy development.

With strong momentum in the United States, fast-paced innovation in Japan, and consistent growth across Europe and Asia-Pacific, this market is poised for long-term success. As companies refine their technologies and governments increase support, we can expect even more breakthroughs that will bring personalized medicine closer to reality.

FAQ's

What is the Market size of the Single-Cell Multiomics industry?

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