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Multiomics Services Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Service (Research Services, Data Analysis Services), By Type (Single-cell Multiomics, Bulk Multiomics), By Application (Biomarker Discovery, Drug Discovery & Development, Synthetic Biology, Others), By End User (Academic & Research Institutes, Pharmaceutical and Biotechnology Companies, Others), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

The Global Multiomics Services Market was valued at USD 1.16 Billion in 2024 and is expected to reach USD 3.04 Billion by 2030 with a CAGR of 17.39%. The Global Multiomics Services Market is experiencing significant expansion as healthcare systems, research institutions, and pharmaceutical companies increasingly adopt integrated omics approaches to address the growing need for precision medicine and personalized healthcare solutions. Multiomics services, which combine genomics, transcriptomics, proteomics, metabolomics, and epigenomics, allow for a comprehensive understanding of biological systems and disease mechanisms. These approaches are becoming critical in drug discovery, biomarker identification, and the development of targeted therapies. The growing prevalence of chronic and genetic diseases, rising demand for advanced diagnostic solutions, and strong collaborations between academic institutions and industry players are pushing the adoption of

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multiomics services. With technological advancements in next-generation sequencing, mass spectrometry, and bioinformatics, the efficiency and scalability of these services have improved significantly, making them more accessible across multiple end-user sectors.

The growth of the multiomics services market is driven by a combination of factors, including the rising focus on precision healthcare, the need for early disease detection, and the increasing use of omics data in clinical decision-making. Pharmaceutical and biotechnology companies are leveraging multiomics to streamline drug development pipelines, reduce attrition rates, and enhance the success of clinical trials. The integration of advanced bioinformatics platforms and artificial intelligence is enabling more accurate data interpretation, leading to breakthroughs in disease profiling and patient stratification. Strategic collaborations and funding support from governments and private investors are accelerating innovation and expanding the service landscape. In addition, the rising adoption of companion diagnostics, driven by regulatory approval for targeted therapies, is further creating demand for multiomics services, as these tools play a central role in identifying the right patient groups for specific treatments.

Despite the promising growth prospects, the market faces challenges that could impact its pace of expansion. High costs associated with multiomics studies, particularly when integrating multiple datasets, pose affordability concerns for smaller institutions and emerging economies. Data complexity and interoperability issues remain significant hurdles, as large-scale omics studies generate massive datasets requiring sophisticated analytical tools and skilled professionals for interpretation. Concerns over data privacy and the lack of standardized protocols across laboratories further complicate widespread adoption. Nonetheless, these challenges also create opportunities for innovation, as companies are developing more cost-efficient platforms, cloud-based data solutions, and integrated software to simplify analysis and improve scalability. With continuous advancements in bioinformatics, artificial intelligence, and automation, the market is expected to overcome many of these barriers, paving the way for widespread adoption of multiomics in healthcare and research over the coming years.

Key Market Drivers

Growing Research in Complex Diseases

Rising research into complex diseases continues to drive strong momentum in the Global Multiomics Services Market. Conditions such as cancer, neurodegenerative diseases, cardiovascular disorders, autoimmune illnesses, and rare genetic syndromes

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involve multifaceted biological pathways that cannot be fully described by single-layer analyses. By integrating genomics, transcriptomics, proteomics, epigenomics, and metabolomics, multiomics enables an in-depth view of disease mechanisms, facilitating discovery of novel biomarkers and therapeutic targets. For example, in September 2023 the U.S. National Institutes of Health announced a USD 50.3 million investment over five years to establish the Multi-Omics for Health and Disease Consortium, funding diverse disease studies and scalable workflows for integrating complex datasets. This type of strategic support underscores how critical multiomics has become in tackling intricate health challenges.

Pharmaceutical and biotech firms are turning increasingly to multiomics strategies to bolster drug development efforts in complex disease areas. Heterogeneous patient responses and disease subtypes demand precision; multiomics data helps stratify patient groups, predict outcomes, and optimize clinical trial design. This approach reduces failure rates and accelerates time-to-market for new therapies. Integration with advanced bioinformatics and AI accelerates interpretation of massive datasets, empowering accelerated insights in oncology, neurological disorders, chronic and metabolic conditions. Strong interest among healthcare providers and research organizations in these capabilities continues to bolster demand for multiomics services.

Academic institutions, public–private partnerships, and government agencies worldwide are pouring resources into large-scale multiomics projects focused on elucidating complex disease biology. Availability of funding and infrastructure from agencies such as the NIH helps drive cross-disciplinary collaborations. As healthcare shifts toward predictive, preventive, and personalized paradigms, multiomics research is increasingly central to that transition. The combination of governmental funding, technological advances in high-throughput platforms, and growing pharmaceutical and academic demand ensures that the study of complex diseases will remain one of the most significant long-term drivers for the multiomics services market.

Key Market Challenges

High Cost of Multiomics Technologies

The Global Multiomics Services Market faces a significant challenge in the form of the high cost associated with multiomics technologies, which limits widespread adoption across both research and clinical settings. The integration of genomics, transcriptomics, proteomics, metabolomics, and epigenomics requires highly sophisticated platforms, advanced sequencing technologies, and powerful computational infrastructure capable

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of handling vast datasets. These resources involve substantial investment in specialized equipment, consumables, and reagents, making multiomics studies cost-prohibitive for many institutions and healthcare providers, especially in resource-constrained environments. Beyond infrastructure, the costs are compounded by the need for skilled professionals who can design experiments, manage complex data pipelines, and perform advanced bioinformatics analysis, often driving up operational expenses.

The expense of large-scale projects becomes even more challenging when multiomics data are applied in clinical research or precision medicine, as validation, regulatory compliance, and data interpretation demand additional financial resources. High costs not only limit accessibility for smaller research institutes and hospitals but also restrict broader patient access to personalized diagnostic and therapeutic solutions that multiomics could enable. This creates a divide between well-funded organizations capable of adopting multiomics and those unable to invest at the required scale, slowing the overall pace of market penetration. Addressing cost-related barriers through technological innovations, more affordable sequencing methods, and scalable cloud-based analytics will be crucial for ensuring that multiomics services can transition from niche applications to mainstream use in global healthcare and life sciences.

Key Market Trends

AI and Machine Learning in Data Integration

The integration of artificial intelligence and machine learning into multiomics services is emerging as a transformative trend, addressing one of the most critical challenges in the field, the complexity and scale of multiomics datasets. Genomic, transcriptomic, proteomic, metabolomic, and epigenomic data generate enormous volumes of information that are difficult to analyze through conventional bioinformatics tools. AI-driven platforms are enabling researchers to uncover hidden patterns, correlate molecular profiles, and predict disease biomarkers with a level of precision and speed that was previously unattainable. Machine learning models are increasingly being applied to classify patient subgroups, identify novel therapeutic targets, and support drug discovery pipelines. The adoption of deep learning techniques allows for the integration of heterogeneous datasets, leading to more comprehensive biological insights and accurate disease modeling.

Pharmaceutical and biotechnology companies are investing in AI-powered analytics to streamline clinical trial design, accelerate target validation, and improve patient stratification for personalized therapies. Cloud-based AI solutions are also gaining

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prominence, offering scalable infrastructure for large-scale data processing while supporting collaboration across research institutions and healthcare organizations. These innovations are reducing data interpretation bottlenecks, improving reproducibility of results, and making multiomics applications more accessible for both research and clinical use. As AI and machine learning continue to evolve, they are expected to play a pivotal role in shaping the future of multiomics services by enabling more efficient integration, predictive modeling, and translation of omics data into actionable healthcare solutions.

Key Market Players

Sapient Bioanalytics, LLC

Bio-Techne Corporation

CD Genomics, Inc.

RayBiotech, Inc.

Creative Proteomics, Inc.

Psomagen, Inc.

Source BioScience Ltd.

Persistent Systems Ltd.

Metware Biotechnology Inc.

Dalton Bioanalytics, Inc.

Report Scope:

In this report, the Global Multiomics Services Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Multiomics Services Market, By Service:

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Research Services

Data Analysis Services

Multiomics Services Market, By Type:

Single-cell Multiomics

Bulk Multiomics

Multiomics Services Market, By Application:

Biomarker Discovery

Drug Discovery & Development

Synthetic Biology

Others

Multiomics Services Market, By End User:

Academic & Research Institutes

Pharmaceutical and Biotechnology Companies

Others

Multiomics Services Market, By Region:

North America

United States

Canada

Mexico

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- Europe
  - France
  - United Kingdom
  - Italy
  - Germany
  - Spain
- Asia-Pacific
  - China
  - India
  - Japan
  - Australia
  - South Korea
- South America
  - Brazil
  - Argentina
  - Colombia
- Middle East & Africa
  - South Africa
  - Saudi Arabia
  - UAE

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Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Multiomics Services Market.

Available Customizations:

Global Multiomics Services Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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