

Single-Cell Multi-Omics Market - A Global and Regional Analysis: Focus on Product Type, Sample Type, Technique, Application, Omics Type, End User, and Country Analysis - Analysis and Forecast, 2023-2033

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Abstracts

Global Single-Cell Multi-Omics Market Industry Overview

The global single-cell multi-omics market is projected to reach \$7.72 billion by 2033 from \$1.43 billion in 2022, growing at a CAGR of 17.27% during the forecast period 2023-2033. The market is driven by factors such as a rise in the number of large-scale genomics studies leveraging single-cell RNA sequencing (Sc-RNA), use of the single-cell multi-omics approach for screening and diagnostics of diseases leading to a shift toward personalized medicine, and the increasing use of single-cell multi-omics for drug development.

Market Lifecycle Stage

The global single-cell multi-omics market is developing. The global single-cell multi-omics market has witnessed several collaborations among the market players. The collaborations are aimed at combining capabilities, expanding the customer base, and marketing, among others.

The opportunity for growth of the global single-cell multi-omics market lies in expansion into new research applications, such as single-cell metabolomics.

Impact of COVID-19

The COVID-19 pandemic has significantly impacted the world's healthcare sector, especially the single-cell multi-omics sector. The pandemic has caused changes in research priorities, supply chain interruptions, and regulatory process modifications that may have had an impact on the operations and activities of single-cell multi-omics.

The future impact of COVID-19 on the demand and supply across the global single-cell multi-omics market depends on the abilities of stakeholders to withstand unforeseeable scenarios in the future. The intensity of impact due to COVID-19 in the future will depend on the current efforts being made by companies to equip their supply chains with the necessary components and processes to remain responsive.

Market Segmentation:

Segmentation 1: by Sample Type

Animal Sample

Human Sample

Microbial Sample

The global single-cell multi-omics market (by sample type) is expected to be dominated by the human sample segment.

Segmentation 2: by Techniques

Single-Cell Isolation and Dispensing

Single-Cell Analysis

The global single-cell multi-omics market (by techniques) is expected to be dominated by single-cell isolation and dispensing.

Segmentation 3: By Omics Type

Single-Cell Transcriptomics

Single-Cell Genomics

Single-Cell Proteomics

The global single-cell multi-omics market (by omics type) is expected to be dominated by single-cell transcriptomics.

Segmentation 4: By Product Type

Kits and Consumables

Instruments

Software

The global single-cell multi-omics market (by product type) is expected to be dominated by kits and consumables.

Segmentation 5: By Applications

Clinical Research

Translational Research

Synthetic Biology

The global single-cell multi-omics market (by application) is expected to be dominated by clinical research.

Segmentation 6: By End User

Biopharmaceutical and Biotech Companies

Academic and Research Institutions

Contract Research Organizations (CROs)

The global single-cell multi-omics market (by end user) is expected to be dominated by academic and research institutions.

Segmentation 7: by Region

North America - U.S., Canada

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

Asia-Pacific - China, Japan, India, Australia, Singapore, and Rest-of-Asia-Pacific

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

Rest-of-the-World

The global single-cell multi-omics market (by region) is dominated by the North America region.

Recent Developments in Global Single-Cell Multi-Omics Market

In February 2023, Singleron Biotechnologies and Macrogen Europe announced a strategic alliance to deliver outstanding single-cell multi-omics sequencing solutions, and they combined their strengths.

In February 2023, Becton, Dickinson and Company announced a new instrument for single-cell multi-omics analysis that would enable scientists to run high-throughput studies without sacrificing sample integrity – potentially accelerating time to discovery across a wide range of disciplines, including immunology, genetic disease research, and cancer and chronic disease research.

In December 2022, 10x Genomics, Inc. announced the first commercial shipments of its Xenium platform for in situ analysis. Xenium is the next generation of targeted spatial profiling of genes and proteins at subcellular resolution.

In March 2023, Mission Bio partnered with the National Science Foundation (NSF) Engineering Research Center for Cell Manufacturing Technologies (CMA^T), leveraging its Tapestri Platform to improve analytical assays and cell manufacturing processes.

In December 2022, Mission Bio partnered with Abiosciences to co-develop bioinformatics packages for translational and clinical research applications in hematological cancers in China. The goal is to combine Mission Bio's single-cell DNA and multi-omics capabilities with Abiosciences' artificial intelligence technology to uncover new disease signatures and address therapeutic resistance.

Demand - Drivers and Limitations

The following are the drivers for the global single-cell multi-omics market:

Rising Number of Large-Scale Genomics Studies Leveraging Single-Cell RNA Sequencing (Sc-RNA)

Use of Single-Cell Multi-Omics Approach for Screening and Diagnostics of Diseases Leading to Shift Toward Personalized Medicine

Increasing Use of Single-Cell Multi-Omics for Drug Development

Collaborations among Technology Providers and Life Sciences Companies for Accelerating the Research in Single-Cell Multi-Omics

The market is expected to face some limitations as well due to the following challenges:

High Cost of Single-Cell Analysis and Sequencing

Limited Availability of Large Online Data Storage and Analysis Platforms

How can this report add value to an organization?

Growth/Marketing Strategy: The global single-cell multi-omics market has seen major

development by key players operating in the market, such as new offerings, partnerships, collaboration, and joint ventures.

Competitive Strategy: The global single-cell multi-omics market has witnessed growth in recent years; as the field of single-cell multi-omics grows, it has witnessed increased collaboration between researchers, academic institutions, and industry partners to drive innovation and commercialization of these technologies. Single-cell multi-omics technologies are already being used in a variety of applications, such as cancer research, immunology, and neuroscience. As the technologies continue to improve, they may be applied to other areas of research, such as developmental biology and stem cell research.

Key Companies Profiled

10x Genomics, Inc.

Becton, Dickinson and Company

BICO GROUP AB (PUBL)

Bio-Rad Laboratories, Inc.

BGI Group

Illumina Inc.

Fluidigm Corporation

Menarini Group

Mission Bio

Nanostring Technologies, Inc.

Namocell, Inc.

PhenomeX,inc.

QIAGEN NV

Rarecells Diagnostics

Scipio Bioscience

Shilps Sciences

Singleron Biotechnologies

Takara Bio Inc.

Thermo Fisher Scientific Inc.

Universal Sequencing Technology Corporation

Contents

1 MARKET

1.1 Global Market Outlook

1.1.1 Product Definition

1.1.2 Inclusion and Exclusion Criteria

1.2 Market Overview

1.2.1 Key Findings

1.2.2 Current Market Scenario

1.2.2.1 For Researchers

1.2.2.2 For Diagnostics

1.3 Industry Outlook

1.3.1 Regulatory Framework

1.3.2 Patent Analysis

1.3.2.1 Awaited Technological Developments

1.3.2.2 Patent Filing Trend (by Country)

1.3.2.3 Patent Filing Trend (by Year)

1.3.3 Key Trends

1.3.3.1 Advancements in Imaging Techniques for Single-Cell Sequencing

1.3.3.2 Use of Artificial Intelligence (AI) and Machine Learning (ML) in Single-Cell

Multi-Omics

1.3.3.3 Increased Development of Advanced Solution Based on Single-Cell

Technology

1.3.4 Opportunity Assessment

1.3.5 Product Benchmarking

1.3.6 Clinical Trials

1.4 COVID-19 Impact

1.4.1 Pre-COVID-19

1.4.2 During COVID-19

1.4.3 Post COVID-19

1.5 Business Dynamics

1.5.1 Impact Analysis

1.5.2 Business Drivers

1.5.2.1 Rising Number of Large-Scale Genomics Studies Leveraging Single-Cell RNA Sequencing (Sc-RNA)

1.5.2.2 Use of Single-Cell Multi-Omics Approach for Screening and Diagnostics of Diseases Leading to Shift Toward Personalized Medicine

1.5.2.3 Increasing Use of Single-Cell Multi-Omics for Drug Development

1.5.2.4 Collaborations among Technology Providers and Life Sciences Companies for Accelerating the Research in Single-Cell Multi-Omics

1.5.3 Business Restraints

1.5.3.1 High Cost of Single-Cell Analysis and Sequencing

1.5.3.2 Limited Availability of Large Online Data Storage and Analysis Platforms

1.5.4 Business Opportunities

1.5.4.1 Expansion into New Research Applications, Such as Single-Cell Metabolomics

1.5.4.2 Increasing Adoption of Genomic-Based Medicine in Emerging Nations

2 GLOBAL SINGLE-CELL MULTI-OMICS MARKET (BY PRODUCT TYPE)

2.1 Overview

2.2 Instruments

2.3 Kits and Consumables

2.4 Software

3 GLOBAL SINGLE-CELL MULTI-OMICS MARKET (BY SAMPLE TYPE)

3.1 Overview

3.2 Human Samples

3.2.1 Cancer Tissues

3.2.2 Stem Cells

3.2.3 Brain Cells

3.2.4 Immune Cells

3.2.5 Other Samples

3.3 Animal Samples

3.4 Microbial Samples

4 GLOBAL SINGLE-CELL MULTI-OMICS MARKET (BY TECHNIQUES)

4.1 Overview

4.2 Single-Cell Isolation and Dispensing

4.2.1 Fluorescence-Activated Cell Sorting (FACS)

4.2.2 Manual Cell Picking

4.2.3 Magnetic-Activated Cell Sorting (MACS)

4.2.4 Laser Capture Microdissection

4.2.5 Random Seeding

4.2.6 Microfluidics

- 4.2.7 Others
- 4.3 Single-Cell Analysis
 - 4.3.1 Mass Cytometry
 - 4.3.2 Polymerase Chain Reaction
 - 4.3.3 Next-Generation Sequencing
 - 4.3.4 Mass Spectrometry
 - 4.3.5 Others

5 GLOBAL SINGLE-CELL MULTI-OMICS MARKET (BY APPLICATIONS)

- 5.1 Overview
- 5.2 Clinical Research
 - 5.2.1 Oncology
 - 5.2.2 Immunology
 - 5.2.3 Neurology
 - 5.2.4 Cell Therapy
 - 5.2.5 Cell Biology
 - 5.2.6 Others
- 5.3 Translational Research
- 5.4 Synthetic Biology

6 GLOBAL SINGLE-CELL MULTI-OMICS MARKET (BY OMICS TYPE)

- 6.1 Overview
- 6.2 Single-Cell Genomics
- 6.3 Single-Cell Proteomics
- 6.4 Single-Cell Transcriptomics

7 GLOBAL SINGLE-CELL MULTI-OMICS MARKET (BY END USER)

- 7.1 Opportunity Assessment
- 7.2 Biopharmaceutical and Biotech Companies
- 7.3 Research and Academic Laboratories
- 7.4 Contract Research Organizations (CROs)

8 GLOBAL SINGLE-CELL MULTI-OMICS MARKET (BY REGION)

- 8.1 North America
 - 8.1.1 Key Findings and Opportunity Assessment

- 8.1.2 Market Dynamics
 - 8.1.2.1 Impact Analysis
- 8.1.3 Market Sizing and Forecast
 - 8.1.3.1 North America Single-Cell Multi-Omics Market (by Country)
 - 8.1.3.1.1 U.S.
 - 8.1.3.1.2 Canada
- 8.2 Europe
 - 8.2.1 Key Findings and Opportunity Assessment
 - 8.2.2 Market Dynamics
 - 8.2.2.1 Impact Analysis
 - 8.2.3 Market Sizing and Forecast
 - 8.2.3.1 Europe Single-Cell Multi-Omics Market (by Country)
 - 8.2.3.1.1 Germany
 - 8.2.3.1.2 Italy
 - 8.2.3.1.3 U.K.
 - 8.2.3.1.4 Spain
 - 8.2.3.1.5 France
 - 8.2.3.1.6 Rest-of-Europe
- 8.3 Asia-Pacific
 - 8.3.1 Key Findings and Opportunity Assessment
 - 8.3.2 Market Dynamics
 - 8.3.2.1 Impact Analysis
 - 8.3.3 Sizing and Forecast Analysis
 - 8.3.3.1 Asia-Pacific Single-Cell Multi-Omics Market (by Country)
 - 8.3.3.1.1 China
 - 8.3.3.1.2 Japan
 - 8.3.3.1.3 India
 - 8.3.3.1.4 Singapore
 - 8.3.3.1.5 Australia
 - 8.3.3.1.6 Rest-of-Asia-Pacific
- 8.4 Latin America
 - 8.4.1 Key Findings and Opportunity Assessment
 - 8.4.2 Market Dynamics
 - 8.4.2.1 Impact Analysis
 - 8.4.3 Sizing and Forecast Analysis
 - 8.4.3.1 Latin America Single-Cell Multi-Omics Market (by Country)
 - 8.4.3.1.1 Brazil
 - 8.4.3.1.2 Mexico
 - 8.4.3.1.3 Rest-of-Latin America

8.5 Rest-of-the-World

8.5.1 Key Findings

8.5.2 Market Dynamics

8.5.2.1 Impact Analysis

8.5.3 Market Sizing and Forecast

9 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

9.1 Competitive Benchmarking

9.1.1 Key Strategies and Developments

9.1.1.1 Funding Activities

9.1.1.2 New Offerings

9.1.1.3 Mergers and Acquisitions

9.1.1.4 Partnership, Collaboration, and Business Expansion

9.1.2 Market Share Analysis

9.1.3 Growth Share Analysis

9.1.3.1 By Application

9.1.3.2 By Omics Type

9.1.3.3 By Product Type

9.1.4 Visual Graphics of the Companies

9.1.5 Multi-Omics Ecosystem Active Players

9.2 Company Profiles

9.2.1 10x Genomics, Inc.

9.2.1.1 Company Overview

9.2.1.2 Role of 10x Genomics, Inc. in the Global Single-Cell Multi-Omics Market

9.2.1.3 Financials

9.2.1.4 Recent Developments

9.2.1.5 Analyst Perspective

9.2.2 Becton, Dickinson and Company

9.2.2.1 Company Overview

9.2.2.2 Role of Becton, Dickinson and Company in the Global Single-Cell Multi-Omics Market

9.2.2.3 Financials

9.2.2.4 Recent Developments

9.2.2.5 Analyst Perspective

9.2.3 BICO GROUP AB (PUBL)

9.2.3.1 Company Overview

9.2.3.2 Role of BICO GROUP AB (PUBL) in the Global Single-Cell Multi-Omics Market

9.2.3.3 Financials

9.2.3.4 Analyst Perspective

9.2.4 Bio-Rad Laboratories, Inc.

9.2.4.1 Company Overview

9.2.4.2 Role of Bio-Rad Laboratories, Inc. in the Global Single-Cell Multi-Omics

Market

9.2.4.3 Financials

9.2.4.4 Analyst Perspective

9.2.5 BGI Group

9.2.5.1 Company Overview

9.2.5.2 Role of BGI Group in the Global Single-Cell Multi-Omics Market

9.2.5.3 Financials

9.2.5.4 Analyst Perspective

9.2.6 Illumina Inc.

9.2.6.1 Company Overview

9.2.6.2 Role of Illumina Inc. in the Global Single-Cell Multi-Omics Market

9.2.6.3 Financials

9.2.6.4 Analyst Perspective

9.2.7 Fluidigm Corporation (Standard Bio Tools)

9.2.7.1 Company Overview

9.2.7.2 Role of Fluidigm Corporation in the Global Single-Cell Multi-Omics Market

9.2.7.3 Financials

9.2.7.4 Recent Developments

9.2.7.5 Analyst Perspective

9.2.8 Menarini Group

9.2.8.1 Company Overview

9.2.8.2 Role of Menarini Group in the Global Single-Cell Multi-Omics Market

9.2.8.3 Analyst Perspective

9.2.9 Mission Bio

9.2.9.1 Company Overview

9.2.9.2 Role of Mission Bio in the Global Single-Cell Multi-Omics Market

9.2.9.3 Recent Developments

9.2.9.4 Analyst Perspective

9.2.10 Nanostring Technologies, Inc.

9.2.10.1 Company Overview

9.2.10.2 Role of Nanostring Technologies, Inc. in the Global Single-Cell Multi-Omics

Market

9.2.10.3 Financials

9.2.10.4 Analyst Perspective

- 9.2.11 Namocell, Inc.
 - 9.2.11.1 Company Overview
 - 9.2.11.2 Role of Namocell, Inc. in the Global Single-Cell Multi-Omics Market
 - 9.2.11.3 Analyst Perspective
- 9.2.12 PhenomeX,inc.
 - 9.2.12.1 Company Overview
 - 9.2.12.2 Role of PhenomeX,inc. in the Global Single-Cell Multi-Omics Market
 - 9.2.12.3 Financials
 - 9.2.12.4 Recent Developments
 - 9.2.12.5 Analyst Perspective
- 9.2.13 QIAGEN NV
 - 9.2.13.1 Company Overview
 - 9.2.13.2 Role of QIAGEN NV in the Global Single-Cell Multi-Omics Market
 - 9.2.13.3 Financials
 - 9.2.13.4 Analyst Perspective
- 9.2.14 Rarecells Diagnostics
 - 9.2.14.1 Company Overview
 - 9.2.14.2 Role of Rarecells Diagnostics in the Global Single-Cell Multi-Omics Market
 - 9.2.14.3 Analyst Perspective
- 9.2.15 Scipio Bioscience
 - 9.2.15.1 Company Overview
 - 9.2.15.2 Role of Scipio Bioscience in the Global Single-Cell Multi-Omics Market
 - 9.2.15.3 Analyst Perspective
- 9.2.16 Shilps Sciences
 - 9.2.16.1 Company Overview
 - 9.2.16.2 Role of Shilps Sciences in the Global Single-Cell Multi-Omics Market
 - 9.2.16.3 Analyst Perspective
- 9.2.17 Singleron Biotechnologies
 - 9.2.17.1 Company Overview
 - 9.2.17.2 Role of Singleron Biotechnologies in the Global Single-Cell Multi-Omics Market
 - 9.2.17.3 Recent Developments
 - 9.2.17.4 Analyst Perspective
- 9.2.18 Takara Bio Inc.
 - 9.2.18.1 Company Overview
 - 9.2.18.2 Role of Takara Bio Inc. in the Global Single-Cell Multi-Omics Market
 - 9.2.18.3 Financials
 - 9.2.18.4 Analyst Perspective
- 9.2.19 Thermo Fisher Scientific Inc.

9.2.19.1 Company Overview

9.2.19.2 Role of Thermo Fisher Scientific Inc. in the Global Single-Cell Multi-Omics Market

9.2.19.3 Financials

9.2.19.4 Analyst Perspective

9.2.20 Universal Sequencing Technology Corporation

9.2.20.1 Company Overview

9.2.20.2 Role of Universal Sequencing Technology Corporation in the Global Single-Cell Multi-Omics Market

9.2.20.3 Analyst Perspective

List Of Figures

LIST OF FIGURES

- Figure 1: An Overview of Single-Cell Multi-Omics Sequencing Technologies
- Figure 2: Global Single-Cell Multi-Omics Market, Impact Analysis
- Figure 3: Global Single-Cell Multi-Omics Market (by Application), % Share, 2022 and 2033
- Figure 4: Global Single-Cell Multi-Omics Market (by Region), \$Billion, 2022 and 2033
- Figure 5: Global Single-Cell Multi-Omics Market Segmentation
- Figure 6: Global Single-Cell Multi-Omics Market: Research Methodology
- Figure 7: Primary Research Methodology
- Figure 8: Bottom-Up Approach (Segment-Wise Analysis)
- Figure 9: Top-Down Approach (Segment-Wise Analysis)
- Figure 10: Global Single-Cell Multi-Omics Market, Patent Analysis (by Country), January 2018- March 2023
- Figure 11: Global Single-Cell Multi-Omics Market, Patent Analysis (by Year), January 2018-December2022
- Figure 12: Global Single-Cell Multi-Omics Market, Key Trends, Market Shift, 2022-2033
- Figure 13: Global Single-Cell Multi-Omics Market, Impact Analysis
- Figure 14: Global Data for Rare Diseases, 2020
- Figure 15: Companies Using Multi-Omics Approach in Research and Development of Drugs and Vaccines
- Figure 16: Advantages of Multi-Omics in Drug Discovery and Development
- Figure 17: Cost of Single Cell Sequencing (by Company)
- Figure 18: Some of the Advancements in Single-Cell Metabolomics
- Figure 19: Global Single-Cell Multi-Omics Market (by Product Type)
- Figure 20: Global Single-Cell Multi-Omics Market, Incremental Opportunity (by Product Type), \$Billion, 2023-2033
- Figure 21: Global Single-Cell Multi-Omics Market (Instruments), \$Billion, 2022-2033
- Figure 22: Global Single-Cell Multi-Omics Market (Kits and Consumables), \$Billion, 2022-2033
- Figure 23: Global Single-Cell Multi-Omics Market (Software), \$Billion, 2022-2033
- Figure 24: Global Single-Cell Multi-Omics Market (by Sample Type)
- Figure 25: Global Single-Cell Multi-Omics Market, Incremental Opportunity (by Sample Type), \$Billion, 2023-2033
- Figure 26: Global Single-Cell Multi-Omics Market (Human Samples), \$Billion, 2022-2033
- Figure 27: Global Single-Cell Multi-Omics Market (Cancer Tissues), \$Million, 2022-2033

Figure 28: Global Single-Cell Multi-Omics Market (Stem Cells), \$Million, 2022-2033

Figure 29: Global Single-Cell Multi-Omics Market (Brain Cells), \$Million, 2022-2033

Figure 30: Global Single-Cell Multi-Omics Market (Immune Cells), \$Million, 2022-2033

Figure 31: Global Single-Cell Multi-Omics Market (Other Samples), \$Million, 2022-2033

Figure 32: Global Single-Cell Multi-Omics Market (Animal Samples), \$Billion, 2022-2033

Figure 33: Global Single-Cell Multi-Omics Market (Microbial Samples), \$Billion, 2022-2033

Figure 34: Global Single-Cell Multi-Omics Market (by Technique)

Figure 35: Global Single-Cell Multi-Omics Market, Incremental Opportunity (by Technique), \$Billion, 2023-2033

Figure 36: Global Single-Cell Multi-Omics Market (Single-Cell Isolation and Dispensing), \$Billion, 2022-2033

Figure 37: Global Single-Cell Multi-Omics Market (Fluorescence-Activated Cell Sorting (FACS)), \$Million, 2022-2033

Figure 38: Global Single-Cell Multi-Omics Market (Manual Cell Picking), \$Million, 2022-2033

Figure 39: Global Single-Cell Multi-Omics Market (Magnetic-Activated Cell Sorting (MACS)), \$Million, 2022-2033

Figure 40: Global Single-Cell Multi-Omics Market (Laser Capture Microdissection), \$Million, 2022-2033

Figure 41: Global Single-Cell Multi-Omics Market (Random Seeding), \$Million, 2022-2033

Figure 42: Global Single-Cell Multi-Omics Market (Microfluidics), \$Million, 2022-2033

Figure 43: Global Single-Cell Multi-Omics Market (Others), \$Million, 2022-2033

Figure 44: Global Single-Cell Multi-Omics Market (Single-Cell Analysis), \$Billion, 2022-2033

Figure 45: Global Single-Cell Multi-Omics Market (Mass Cytometry), \$Million, 2022-2033

Figure 46: Global Single-Cell Multi-Omics Market (Polymerase Chain Reaction), \$Million, 2022-2033

Figure 47: Global Single-Cell Multi-Omics Market (Next-Generation Sequencing), \$Million, 2022-2033

Figure 48: Global Single-Cell Multi-Omics Market (Mass Spectrometry), \$million, 2022-2033

Figure 49: Global Single-Cell Multi-Omics Market (Others), \$Million, 2022-2033

Figure 50: Global Single-Cell Multi-Omics Market (by Application)

Figure 51: Global Single-Cell Multi-Omics Market, Incremental Opportunity (by Application), \$Billion, 2023-2033

Figure 52: Global Single-Cell Multi-Omics Market (Clinical Research), \$Billion,

2022-2033

Figure 53: Global Single-Cell Multi-Omics Market (Oncology), \$Million, 2022-2033

Figure 54: Global Single-Cell Multi-Omics Market (Immunology), \$Million, 2022-2033

Figure 55: Global Single-Cell Multi-Omics Market (Neurology), \$Million, 2022-2033

Figure 56: Global Single-Cell Multi-Omics Market (Cell Therapy), \$Million, 2022-2033

Figure 57: Global Single-Cell Multi-Omics Market (Cell Biology), \$Million, 2022-2033

Figure 58: Global Single-Cell Multi-Omics Market (Others), \$Million, 2022-2033

Figure 59: Global Single-Cell Multi-Omics Market (Translational Research), \$Billion, 2022-2033

Figure 60: Global Single-Cell Multi-Omics Market (Synthetic Biology), \$Billion, 2022-2033

Figure 61: Global Single-Cell Multi-Omics Market (by Omics Type)

Figure 62: Global Single-Cell Multi-Omics Market, Incremental Opportunity (by Omics Type), \$Billion, 2023-2033

Figure 63: Global Single-Cell Multi-Omics Market (Single-Cell Genomics), \$Billion, 2022-2033

Figure 64: Global Single-Cell Multi-Omics Market (Single-Cell Proteomics), \$Billion, 2022-2033

Figure 65: Global Single-Cell Multi-Omics Market (Single-Cell Transcriptomics), \$Billion, 2022-2033

Figure 66: Global Single-Cell Multi-Omics Market (by End User)

Figure 67: Global Single-Cell Multi-Omics Market, Incremental Opportunity (by End User), \$Billion, 2023-2033

Figure 68: Global Single-Cell Multi-Omics Market (Biopharmaceutical and Biotech Companies), \$Billion, 2022-2033

Figure 69: Global Single-Cell Multi-Omics Market (Research and Academic Laboratories), \$Billion, 2022-2033

Figure 70: Global Single-Cell Multi-Omics Market (Contract Research Organizations (CROs)), \$Billion, 2022-2033

Figure 71: Global Single-Cell Multi-Omics Market Share (by Region)

Figure 72: North America Single-Cell Multi-Omics Market, Incremental Opportunity (by Country), \$Million, 2023-2033

Figure 73: North America Single-Cell Multi-Omics Market, \$Billion, 2022-2033

Figure 74: North America Single-Cell Multi-Omics Market (by Country), % Share, 2022 and 2033

Figure 75: U.S. Single-Cell Multi-Omics Market, \$Million, 2022-2033

Figure 76: Canada Single-Cell Multi-Omics Market, \$Million, 2022-2033

Figure 77: Europe Single-Cell Multi-Omics Market, Incremental Opportunity (by Country), \$Million, 2023-2033

- Figure 78: Europe Single-Cell Multi-Omics Market, \$Billion, 2022-2033
- Figure 79: Europe Single-Cell Multi-Omics Market (by Country), % Share, 2022 and 2033
- Figure 80: Germany Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 81: Italy Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 82: U.K. Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 83: Spain Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 84: France Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 85: Rest-of-Europe Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 86: Asia-Pacific Single-Cell Multi-Omics Market Incremental Revenue Opportunity (by Country), \$Million, 2023-2033
- Figure 87: Asia-Pacific Single-Cell Multi-Omics Market, \$Billion, 2022-2033
- Figure 88: Asia-Pacific Single-Cell Multi-Omics Market (by Country), % Share, 2022 and 2033
- Figure 89: China Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 90: Japan Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 91: India Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 92: Singapore Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 93: Australia Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 94: Rest-of-Asia-Pacific Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 95: Latin America Single-Cell Multi-Omics Market Incremental Revenue Opportunity (by Country), \$Million, 2022-2033
- Figure 96: Latin America Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 97: Brazil Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 98: Mexico Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 99: Rest-of-Latin America Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 100: Rest-of-the-World Single-Cell Multi-Omics Market, \$Million, 2022-2033
- Figure 101: Global Single-Cell Multi-Omics Market, Number of Key Developments and Strategies, January 2018-March 2023
- Figure 102: Funding Activities, January 2018-March 2023
- Figure 103: New Offerings, January 2018-March 2023
- Figure 104: Mergers and Acquisitions, January 2018-March 2023
- Figure 105: Partnership, Collaboration, and Business expansion, January 2018-March 2023
- Figure 106: Global Single-Cell Multi-Omics Market, Company Revenue Share Analysis, \$Billion, 2022
- Figure 107: Global Single-Cell Multi-Omics Market, Growth-Share Matrix (by Application), 2023-2033
- Figure 108: Global Single-Cell Multi-Omics Market, Growth-Share Matrix (by Omics

Type), 2023-2033

Figure 109: Global Single-Cell Multi-Omics Market, Growth-Share Matrix (by Product Type), 2023-2033

Figure 110: Global Single Cell Multi Omics Market, Visual Graphics of the Companies

Figure 111: 10x Genomics, Inc.: Product Portfolio

Figure 112: 10x Genomics, Inc.: Overall Financials, \$Million, 2020-2022

Figure 113: 10x Genomics, Inc. Net Revenue (by Segment), \$Million, 2020-2022

Figure 114: 10x Genomics, Inc.: Net Revenue (by Region), \$Million, 2020-2022

Figure 115: 10x Genomics, Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 116: Becton, Dickinson and Company: Product Portfolio

Figure 117: Becton, Dickinson and Company: Overall Financials, \$Million, 2020-2022

Figure 118: Becton, Dickinson and Company: Net Revenue (by Segment), \$Million, 2020-2022

Figure 119: Becton, Dickinson and Company: Net Revenue (by Region), \$Million, 2020-2022

Figure 120: Becton, Dickinson and Company: R&D Expenditure, \$Million, 2020-2022

Figure 121: BICO GROUP AB (PUBL): Product Portfolio

Figure 122: BICO GROUP AB (PUBL): Overall Financials, \$Million, 2020-2022

Figure 123: BICO GROUP AB (PUBL): Net Revenue (by Segment), \$Million, 2021 and 2022

Figure 124: BICO GROUP AB (PUBL): Net Revenue (by Region), \$Million, 2020-2022

Figure 125: Bio-Rad Laboratories, Inc.: Product Portfolio

Figure 126: Bio-Rad Laboratories, Inc.: Overall Financials, \$Million, 2020-2022

Figure 127: Bio-Rad Laboratories, Inc.: Net Revenue (by Segment), \$Million, 2020-2022

Figure 128: Bio-Rad Laboratories, Inc.: Net Revenue (by Region), \$Million, 2020-2022

Figure 129: Bio-Rad Laboratories, Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 130: BGI Genomics.: Product Portfolio

Figure 131: BGI Genomics: Overall Financials, \$Million, 2020-2022

Figure 132: Illumina Inc.: Product Portfolio

Figure 133: Illumina Inc.: Overall Financials, \$Million, 2020-2022

Figure 134: Illumina Inc.: Net Revenue (by Segment), \$Million, 2020-2022

Figure 135: Illumina Inc.: Net Revenue (by Region), \$Million, 2020-2022

Figure 136: Illumina, Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 137: Fluidigm Corporation: Product Portfolio

Figure 138: Fluidigm Corporation: Overall Financials, \$Million, 2020-2022

Figure 139: Fluidigm Corporation: Net Revenue (by Segment), \$Million, 2020-2022

Figure 140: Fluidigm Corporation: Net Revenue (by Region), \$Million, 2020-2022

Figure 141: Fluidigm Corporation: R&D Expenditure, \$Million, 2020-2022

Figure 142: Menarini Silicon Biosystems: Product Portfolio

- Figure 143: Mission Bio: Product Portfolio
- Figure 144: Nanostring Technologies, Inc.: Product Portfolio
- Figure 145: Nanostring Technologies, Inc.: Overall Financials, \$Million, 2020-2022
- Figure 146: Nanostring Technologies, Inc.: Net Revenue (by Region), \$Million, 2020-2022
- Figure 147: Nanostring Technologies, Inc.: R&D Expenditure, \$Million, 2020-2022
- Figure 148: Namocell, Inc.: Product Portfolio
- Figure 149: PhenomeX,inc.: Product Portfolio
- Figure 150: PhenomeX,inc.: Overall Financials, \$Million, 2020-2022
- Figure 151: PhenomeX,inc.: Net Revenue (by Region), \$Million, 2020-2022
- Figure 152: PhenomeX,inc.: R&D Expenditure, \$Million, 2020-2022
- Figure 153: QIAGEN NV: Product Portfolio
- Figure 154: QIAGEN NV: Overall Financials, \$Million, 2020-2022
- Figure 155: QIAGEN NV: Net Revenue (by Segment), \$Million, 2020-2022
- Figure 156: QIAGEN NV: Net Revenue (by Region), \$Million, 2020-2022
- Figure 157: QIAGEN NV: R&D Expenditure, \$Million, 2020-2020
- Figure 158: Rarecells Diagnostics: Product Portfolio
- Figure 159: Scipio Bioscience: Product Portfolio
- Figure 160: Shilps Sciences: Product Portfolio
- Figure 161: Singleron Biotechnologies: Product Portfolio
- Figure 162: Takara Bio Inc.: Product Portfolio
- Figure 163: Takara Bio Inc.: Overall Financials, \$Million, 2020-2022
- Figure 164: Takara Bio Inc.: Net Revenue (by Segment), \$Million, 2020-2022
- Figure 165: Takara Bio Inc.: Net Revenue (by Region), \$Million, 2020-2022
- Figure 166: Takara Bio Inc.: R&D Expenditure, \$Million, 2020-2022
- Figure 167: Thermo Fisher Scientific Inc.: Product Portfolio
- Figure 168: Thermo Fisher Scientific Inc.: Overall Financials, \$Million, 2020-2022
- Figure 169: Thermo Fisher Scientific Inc.: Net Revenue (by Segment), \$Million, 2020-2022
- Figure 170: Thermo Fisher Scientific Inc.: Net Revenue (by Region), \$Million, 2020-2022
- Figure 171: Thermo Fisher Scientific Inc.: R&D Expenditure, \$Million, 2020-2022
- Figure 172: Universal Sequencing Technology Corporation: Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global Single-Cell Multi-Omics Market, Key Developments Analysis, January 2018-March 2023

Table 2: Key Questions Answered in the Report

Table 3: Global Single-Cell Multi-Omics Market: Global Regulatory Organization

Table 4: Global Single-Cell Multi-Omics Market, Product Benchmarking

Table 5: Global Single-Cell Multi-Omics Market, Ongoing Clinical Trials

Table 6: Single-Cell Multi-Omics Platforms Used in the Diagnosis of Disease

Table 7: Recent Collaborations between Technology Providers and Life Sciences Companies

Table 8: Cancer Research with Single-Cell Multi-Omics Technologies

Table 9: Advantages of scRNA-seq Methods in Immunology Applications

Table 10: North America Single-Cell Multi-Omics Market, Impact Analysis

Table 11: Europe Single-Cell Multi-Omics Market Dynamics, Impact Analysis

Table 12: Asia-Pacific Single-Cell Multi-Omics Market Dynamics, Impact Analysis

Table 13: Latin America Single-Cell Multi-Omics Market Dynamics, Impact Analysis

Table 14: Rest-of-the-World Single-Cell Multi-Omics Market, Impact Analysis

Table 15: Multi-Omics Ecosystem Active Players

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