

# **Single Cell Genome Sequencing Market Size, Trends, Analysis, and Outlook By Product (Instruments, Reagents), By Technology (NGS, PCR, qPCR, Microarray, MDA), By Workflow (Genomic Analysis, Single Cell Isolation, Sample Preparation), By Disease Area (Cancer, Immunology, Prenatal diagnosis, Neurobiology, Microbiology, Others), By Application (Circulating Cells, Cell Differentiation/Reprogramming, Genomic Variation, Subpopulation Characterization, Others), By End-user (Academic & Research Laboratories, Biotechnology & Biopharmaceutical Companies, Clinics, Others), by Region, Country, Segment, and Companies, 2024-2030**

<https://marketpublishers.com/r/S96892C76077EN.html>

Date: March 2024

Pages: 190

Price: US\$ 3,980.00 (Single User License)

ID: S96892C76077EN

## **Abstracts**

The global Single Cell Genome Sequencing market size is poised to register 15.51% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Single Cell Genome Sequencing market across By Product (Instruments, Reagents), By Technology (NGS, PCR, qPCR, Microarray, MDA), By Workflow (Genomic Analysis, Single Cell Isolation, Sample Preparation), By Disease Area (Cancer, Immunology, Prenatal diagnosis, Neurobiology, Microbiology, Others), By Application (Circulating Cells, Cell Differentiation/Reprogramming, Genomic Variation, Subpopulation Characterization, Others), By End-user (Academic & Research Laboratories, Biotechnology & Biopharmaceutical Companies, Clinics, Others).

The Single Cell Genome Sequencing Market is witnessing growth driven by increasing interest in understanding cellular heterogeneity, rising applications in cancer research and stem cell biology, and advancements in sequencing technologies and bioinformatics analysis. Single cell genome sequencing enables the genomic characterization of individual cells, providing insights into genetic variation, gene expression, and cellular function. Key trends include the development of microfluidic and droplet-based platforms for high-throughput single cell isolation and sequencing, integration of combinatorial indexing and barcoding methods for multiplexed single cell analysis, and customization of sequencing protocols for specific cell types and research objectives. Additionally, increasing adoption of single cell sequencing in immunology, neuroscience, and developmental biology, expansion of core facility services and collaborative research networks, and regulatory approvals for new single cell analysis tools contribute to market expansion.

## Single Cell Genome Sequencing Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Single Cell Genome Sequencing market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Single Cell Genome Sequencing survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Single Cell Genome Sequencing industry.

## Key market trends defining the global Single Cell Genome Sequencing demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Single Cell Genome Sequencing Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Single Cell Genome Sequencing industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is

supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Single Cell Genome Sequencing companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Single Cell Genome Sequencing industry

Leading Single Cell Genome Sequencing companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Single Cell Genome Sequencing companies.

Single Cell Genome Sequencing Market Study- Strategic Analysis Review

The Single Cell Genome Sequencing market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Single Cell Genome Sequencing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Single Cell Genome Sequencing industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Single Cell Genome Sequencing Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Single Cell Genome Sequencing Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Single Cell Genome Sequencing market segments. Similarly, Strong end-user demand is encouraging Canadian Single Cell Genome Sequencing companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Single Cell Genome Sequencing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Single Cell Genome Sequencing Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Single Cell Genome Sequencing industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Single Cell Genome Sequencing market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding

of consumer preferences.

**Asia Pacific Single Cell Genome Sequencing Market Size Outlook-** an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Single Cell Genome Sequencing in Asia Pacific. In particular, China, India, and South East Asian Single Cell Genome Sequencing markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Single Cell Genome Sequencing Market Size Outlook-** Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

**Middle East and Africa Single Cell Genome Sequencing Market Size Outlook-** continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Single Cell Genome Sequencing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Single Cell Genome Sequencing.

**Single Cell Genome Sequencing Market Company Profiles**

The global Single Cell Genome Sequencing market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth

strategies, and financial profiles. Leading companies included in the study are 10x Genomics, BGI, Bio-Rad Laboratories, F. Hoffmann-La-Roche Ltd, Fluidigm, Illumina Inc, Novogene, Oxford Nanopore Technologies, Pacific Biosciences, QIAGEN, Thermo Fisher Scientific Inc

## Recent Single Cell Genome Sequencing Market Developments

The global Single Cell Genome Sequencing market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

## Single Cell Genome Sequencing Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

*Single Cell Genome Sequencing Market Size, Trends, Analysis, and Outlook By Product (Instruments, Reagents), B...*

By Product

Instruments

Reagents

By Technology

NGS

PCR

qPCR

Microarray

MDA

By Workflow

Genomic Analysis

Single Cell Isolation

Sample Preparation

By Disease Area

Cancer

Immunology

Prenatal diagnosis

Neurobiology

Microbiology

Others

By Application

Circulating Cells

Cell Differentiation/Reprogramming

Genomic Variation

Subpopulation Characterization

Others

By End-User

Academic & Research Laboratories

Biotechnology & Biopharmaceutical Companies

Clinics

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies



10x Genomics

BGI

Bio-Rad Laboratories

F. Hoffmann-La-Roche Ltd

Fluidigm

Illumina Inc

Novogene

Oxford Nanopore Technologies

Pacific Biosciences

QIAGEN

Thermo Fisher Scientific Inc

Formats Available: Excel, PDF, and PPT

## Contents

### 1. EXECUTIVE SUMMARY

- 1.1 Single Cell Genome Sequencing Market Overview and Key Findings, 2024
- 1.2 Single Cell Genome Sequencing Market Size and Growth Outlook, 2021- 2030
- 1.3 Single Cell Genome Sequencing Market Growth Opportunities to 2030
- 1.4 Key Single Cell Genome Sequencing Market Trends and Challenges
  - 1.4.1 Single Cell Genome Sequencing Market Drivers and Trends
  - 1.4.2 Single Cell Genome Sequencing Market Challenges
- 1.5 Competitive Landscape and Key Players
- 1.6 Competitive Analysis- Growth Strategies Adopted by Leading Single Cell Genome Sequencing Companies

### 2. SINGLE CELL GENOME SEQUENCING MARKET SIZE OUTLOOK TO 2030

- 2.1 Single Cell Genome Sequencing Market Size Outlook, USD Million, 2021- 2030
- 2.2 Single Cell Genome Sequencing Incremental Market Growth Outlook, %, 2021-2030
- 2.3 Segment Snapshot, 2024

### 3. SINGLE CELL GENOME SEQUENCING MARKET- STRATEGIC ANALYSIS REVIEW

- 3.1 Porter's Five Forces Analysis
  - \* Threat of New Entrants
  - \* Threat of Substitutes
  - \* Intensity of Competitive Rivalry
  - \* Bargaining Power of Buyers
  - \* Bargaining Power of Suppliers
- 3.2 Value Chain Analysis
- 3.3 SWOT Analysis

### 4. SINGLE CELL GENOME SEQUENCING MARKET SEGMENTATION ANALYSIS AND OUTLOOK

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030  
By Product

Instruments

Reagents

By Technology

NGS

PCR

qPCR

Microarray

MDA

By Workflow

Genomic Analysis

Single Cell Isolation

Sample Preparation

By Disease Area

Cancer

Immunology

Prenatal diagnosis

Neurobiology

Microbiology

Others

By Application

Circulating Cells

Cell Differentiation/Reprogramming

Genomic Variation

Subpopulation Characterization

Others

By End-User

Academic & Research Laboratories

Biotechnology & Biopharmaceutical Companies

Clinics

Others

4.3 Growth Prospects and Niche Opportunities, 2023- 2030

4.4 Regional comparison of Market Growth, CAGR, 2023-2030

## **5. REGION-WISE MARKET OUTLOOK TO 2030**

5.1 Key Findings for Asia Pacific Single Cell Genome Sequencing Market, 2025

5.2 Asia Pacific Single Cell Genome Sequencing Market Size Outlook by Type, 2021-2030

5.3 Asia Pacific Single Cell Genome Sequencing Market Size Outlook by Application,

2021- 2030

5.4 Key Findings for Europe Single Cell Genome Sequencing Market, 2025

5.5 Europe Single Cell Genome Sequencing Market Size Outlook by Type, 2021- 2030

5.6 Europe Single Cell Genome Sequencing Market Size Outlook by Application, 2021- 2030

5.7 Key Findings for North America Single Cell Genome Sequencing Market, 2025

5.8 North America Single Cell Genome Sequencing Market Size Outlook by Type, 2021- 2030

5.9 North America Single Cell Genome Sequencing Market Size Outlook by Application, 2021- 2030

5.10 Key Findings for South America Single Cell Genome Sequencing Market, 2025

5.11 South America Pacific Single Cell Genome Sequencing Market Size Outlook by Type, 2021- 2030

5.12 South America Single Cell Genome Sequencing Market Size Outlook by Application, 2021- 2030

5.13 Key Findings for Middle East and Africa Single Cell Genome Sequencing Market, 2025

5.14 Middle East Africa Single Cell Genome Sequencing Market Size Outlook by Type, 2021- 2030

5.15 Middle East Africa Single Cell Genome Sequencing Market Size Outlook by Application, 2021- 2030

## **6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030**

6.1 US Single Cell Genome Sequencing Market Size Outlook and Revenue Growth Forecasts

6.2 US Single Cell Genome Sequencing Industry Drivers and Opportunities

6.3 Canada Market Size Outlook and Revenue Growth Forecasts

6.4 Canada Single Cell Genome Sequencing Industry Drivers and Opportunities

6.6 Mexico Market Size Outlook and Revenue Growth Forecasts

6.6 Mexico Single Cell Genome Sequencing Industry Drivers and Opportunities

6.7 Germany Market Size Outlook and Revenue Growth Forecasts

6.8 Germany Single Cell Genome Sequencing Industry Drivers and Opportunities

6.9 France Market Size Outlook and Revenue Growth Forecasts

6.10 France Single Cell Genome Sequencing Industry Drivers and Opportunities

6.11 UK Market Size Outlook and Revenue Growth Forecasts

6.12 UK Single Cell Genome Sequencing Industry Drivers and Opportunities

6.13 Spain Market Size Outlook and Revenue Growth Forecasts

6.14 Spain Single Cell Genome Sequencing Industry Drivers and Opportunities

- 6.16 Italy Market Size Outlook and Revenue Growth Forecasts
- 6.16 Italy Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
- 6.18 Rest of Europe Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.19 China Market Size Outlook and Revenue Growth Forecasts
- 6.20 China Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.21 India Market Size Outlook and Revenue Growth Forecasts
- 6.22 India Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.23 Japan Market Size Outlook and Revenue Growth Forecasts
- 6.24 Japan Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
- 6.26 South Korea Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
- 6.32 Rest of Asia Pacific Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
- 6.36 Argentina Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
- 6.38 Rest of South America Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East Single Cell Genome Sequencing Industry Drivers and Opportunities
- 6.41 Africa Market Size Outlook and Revenue Growth Forecasts
- 6.42 Africa Single Cell Genome Sequencing Industry Drivers and Opportunities

## **7. SINGLE CELL GENOME SEQUENCING MARKET OUTLOOK ACROSS SCENARIOS**

- 7.1 Low Growth Case
- 7.2 Reference Growth Case
- 7.3 High Growth Case

## **8. SINGLE CELL GENOME SEQUENCING COMPANY PROFILES**

8.1 Profiles of Leading Single Cell Genome Sequencing Companies in the Market

8.2 Business Descriptions, SWOT Analysis, and Growth Strategies

8.3 Financial Performance and Key Metrics

### **10X GENOMICS**

BGI

Bio-Rad Laboratories

F. Hoffmann-La-Roche Ltd

Fluidigm

Illumina Inc

Novogene

Oxford Nanopore Technologies

Pacific Biosciences

QIAGEN

Thermo Fisher Scientific Inc

## **9. APPENDIX**

9.1 Scope of the Report

9.2 Research Methodology and Data Sources

9.3 Glossary of Terms

9.4 Market Definitions

9.5 Contact Information

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