

Single Cell Genome Sequencing Market – Global Industry Size, Share, Trends, Opportunity, & Forecast 2018-2028 Segmented By Product Type (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, Competition

<https://marketpublishers.com/r/SCB28A8E5C9CEN.html>

Date: January 2024

Pages: 182

Price: US\$ 4,900.00 (Single User License)

ID: SCB28A8E5C9CEN

Abstracts

Global Single Cell Genome Sequencing Market was valued at USD 2.27 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 15.95% through 2028. The Global Single Cell Genome Sequencing Market is a dynamic and rapidly evolving sector within the broader genomics and biotechnology industry. It revolves around the application of cutting-edge techniques to analyze the genomes of individual cells, revealing insights into cellular heterogeneity, genetic mutations, and gene expression patterns.

The Global Single Cell Genome Sequencing Market focuses on technologies and services that enable the sequencing and analysis of the DNA or RNA of individual cells.

This allows researchers and clinicians to study genetic diversity, cellular function, and disease mechanisms at a resolution not previously possible.

Key Market Drivers

Advancements in Genomic Research

Advancements in genomic research are a pivotal market driver for the growth of the Global Single Cell Genome Sequencing Market. Genomic research refers to the study of the complete set of an organism's genes, known as its genome. Genomic research has revealed that cellular heterogeneity, or the differences between individual cells within a tissue or organism, plays a crucial role in health and disease. Traditional bulk sequencing techniques provide an average of the genetic content of millions of cells, masking important variations between individual cells. Single-cell genome sequencing enables the study of individual cells, unveiling a more precise understanding of cellular diversity.

Genomic research has established the genetic underpinnings of various diseases, including cancer and neurodegenerative disorders. Single-cell sequencing allows researchers to identify the genetic mutations and variations that occur in specific cells. This knowledge is essential for elucidating disease mechanisms, identifying therapeutic targets, and developing precision medicine approaches tailored to individual patients.

In developmental biology, the progression from a single fertilized cell to a complex multicellular organism is a process governed by intricate genetic mechanisms. Single-cell genome sequencing is a powerful tool for tracking the gene expression and genetic changes that occur during development. This research has broad implications for understanding embryogenesis, organ development, and regeneration. Genomic research has paved the way for emerging fields such as single-cell transcriptomics and epigenomics. Single-cell RNA sequencing, for instance, enables the measurement of gene expression at the single-cell level, providing insights into cellular function. Epigenomics explores epigenetic modifications that regulate gene expression and is vital for understanding how genes are turned on and off in individual cells. Single-cell genome sequencing supports drug discovery efforts by identifying specific genetic signatures associated with drug responses or resistance. This is critical for the development of targeted therapies. Pharmaceutical companies are increasingly integrating single cell sequencing into their research and development processes.

Clinical and Diagnostic Applications

Clinical and diagnostic applications play a crucial role in driving the growth of the Global Single Cell Genome Sequencing Market. These applications have expanded the utility of single-cell genome sequencing in healthcare, diagnostics, and personalized medicine. The most significant drivers of single-cell genome sequencing in the clinical domain is personalized medicine. Traditional genomic sequencing methods provide a broad overview of a patient's genetic makeup, but single-cell sequencing offers a more granular view. This precision is essential for tailoring medical treatments to an individual's unique genetic profile. Identifying specific genetic mutations or variations in single cells allows physicians to prescribe therapies that are more effective and have fewer side effects.

Single-cell genome sequencing is a powerful tool for diagnosing and monitoring various diseases. By analyzing individual cells, it can detect subtle genetic changes that are indicative of diseases like cancer, neurodegenerative disorders, and autoimmune conditions. Early detection and monitoring of these diseases are essential for timely intervention and effective management.

Single-cell sequencing has revolutionized cancer research and treatment. It enables the identification of heterogeneous cell populations within tumors, providing insights into tumor evolution and the development of resistance to therapies. Clinicians can use this information to develop targeted therapies, predict treatment responses, and monitor disease progression. In prenatal diagnostics, single-cell genome sequencing is used for non-invasive prenatal testing (NIPT). This method analyzes fetal DNA circulating in the mother's bloodstream, making it safer and more accurate than traditional invasive procedures like amniocentesis. It is commonly used for detecting chromosomal abnormalities, such as Down syndrome. Single-cell sequencing aids in the detection and monitoring of infectious diseases. It can identify pathogens at the single-cell level, helping in the diagnosis of viral and bacterial infections. Understanding the genetic variations of pathogens is critical for developing effective treatments and vaccines.

Technological Advancements

Technological advancements are a key driver for the growth of the Global Single Cell Genome Sequencing Market. These advances have led to improvements in sequencing platforms, data analysis tools, and overall efficiency in single-cell genome sequencing. The most significant technological advancement is the improvement in sequencing platforms. Traditional bulk sequencing techniques were not suitable for single-cell analysis due to limited sensitivity. However, new platforms, such as droplet-based

methods (e.g., 10x Genomics), have been developed specifically for single-cell sequencing. These platforms can process thousands of individual cells simultaneously, making single cell sequencing more efficient and cost-effective.

Technological advancements have led to cost reductions in single-cell genome sequencing. As the efficiency of sequencing platforms has increased, the cost per cell has decreased. This has made single cell sequencing more accessible to a broader range of researchers and institutions, further driving its adoption. Throughput is a critical factor in genomics research. Technological advancements have significantly increased the throughput of single cell sequencing platforms. Researchers can now analyze a larger number of cells in a shorter amount of time, facilitating more comprehensive studies and accelerating the pace of research.

Single-cell sequencing requires a high level of sensitivity to detect the genetic variations present in individual cells. Technological innovations have improved the sensitivity of sequencing methods, enabling the detection of low-abundance transcripts and rare genetic mutations. This is particularly important in cancer research and other fields where rare cell populations are of interest. Advances in technology have enabled the integration of multi-omics data from individual cells. In addition to DNA sequencing, researchers can simultaneously analyze RNA, epigenetic modifications, and protein expression in single cells. This holistic approach provides a more comprehensive view of cell biology and function.

Rising Investments and Funding

Rising investments and funding are pivotal market drivers for the growth of the Global Single Cell Genome Sequencing Market. Investment from various sources, including government agencies, private sector companies, and research institutions, provides the financial support necessary for research, development, and commercialization of single-cell genome sequencing technologies. Investments and funding are essential to support the R&D efforts of companies and research institutions engaged in single-cell genome sequencing technology. This financial backing enables the development of innovative sequencing platforms, data analysis tools, and bioinformatics algorithms. It also supports the refinement of protocols and methodologies, leading to more efficient and accurate single-cell sequencing techniques.

Financial resources facilitate the establishment of advanced infrastructure for single-cell sequencing. This includes the setup of state-of-the-art sequencing facilities, data analysis centers, and biobanks for storing biological samples. A well-equipped

infrastructure is necessary for the smooth execution of research projects and the provision of sequencing services to researchers.

Investments play a significant role in the commercialization of single-cell genome sequencing technologies. Companies engaged in the development of these technologies require capital for product manufacturing, marketing, and distribution. Funding helps bridge the gap between research and practical applications, making single cell sequencing technologies more accessible to the wider scientific and clinical communities. Access to advanced sequencing equipment is crucial for high-quality single-cell genome sequencing. Investments enable institutions to acquire the latest sequencing platforms and instruments, ensuring that researchers have access to the best tools available. This enhances the quality and reliability of research outcomes. Funding allows institutions to attract top talent in the field of genomics and single-cell sequencing. Researchers and scientists are more likely to join organizations that can offer competitive salaries, research grants, and the necessary resources to conduct groundbreaking research. This influx of talent accelerates innovation.

Key Market Challenges

Cost and Accessibility

High Initial Costs: Single-cell genome sequencing is technologically advanced, but it often comes with high initial costs. The equipment, reagents, and expertise required can be prohibitive for smaller research labs and institutions. This cost barrier can limit the adoption of single-cell sequencing in resource-constrained settings.

While the cost of sequencing has decreased, the analysis of the vast amount of data generated remains expensive. Specialized bioinformatics expertise is needed to process and interpret the data, and the associated software and computational resources can be costly. In many developing regions, access to single-cell sequencing technology and related infrastructure is limited. This inequality in access to cutting-edge genomics tools can lead to disparities in research and healthcare.

Data Integration and Interpretation

Complex Data: Single-cell sequencing generates highly complex datasets, including genomics, transcriptomics, epigenomics, and proteomics data from individual cells. Integrating and interpreting this multi-omics information is challenging. Advanced bioinformatics tools are required to extract meaningful insights from the data.

Standardizing single-cell sequencing protocols and ensuring data quality control are ongoing challenges. Variability in sample preparation, sequencing, and data analysis can lead to inconsistencies and errors. Robust quality control measures are needed to ensure reliable results. Single-cell sequencing reveals cellular heterogeneity within tissues, which can be challenging to interpret. Understanding how different cell types and states contribute to biological processes and diseases is a complex task that requires continuous research and development.

Regulatory and Ethical Considerations

Privacy and Data Security: Single-cell sequencing generates highly sensitive genetic data. Ensuring privacy and data security is a growing concern, especially when this technology is used in clinical applications and personalized medicine. Regulatory frameworks must evolve to protect individuals' genetic information.

The ability to sequence individual cells raises ethical concerns, particularly in the context of embryo selection, germline editing, and privacy. Policymakers and researchers need to address these ethical issues to ensure responsible use of the technology. In clinical applications, obtaining regulatory approvals for single-cell sequencing-based diagnostics and therapies can be a lengthy and complex process. Ensuring that these technologies meet rigorous safety and efficacy standards is critical, but it can slow down market entry.

Key Market Trends

Expanding Clinical and Diagnostic Applications

The most prominent trends in the Single Cell Genome Sequencing Market is the expanding use of this technology in clinical and diagnostic applications. Single-cell sequencing is being increasingly integrated into healthcare practices, enabling personalized medicine and improving disease diagnosis and monitoring.

Single-cell sequencing is being used to understand the genetic heterogeneity within tumors, aiding in the development of targeted cancer therapies. It allows for the detection of rare cancer cell populations and the tracking of treatment resistance. Single-cell sequencing is being employed in non-invasive prenatal testing (NIPT) for the early detection of chromosomal abnormalities in fetuses. This technology is safer and more accurate than traditional invasive methods like amniocentesis. Single-cell sequencing is

being utilized to detect and monitor infectious diseases by identifying pathogens at the single-cell level. This is crucial for tracking disease outbreaks and developing effective treatments and vaccines. Researchers are using single-cell sequencing to study the genetic underpinnings of neurological disorders like Alzheimer's and Parkinson's disease. It provides insights into the heterogeneity of brain cells and disease mechanisms.

Technological Advancements and Automation

Continuous technological advancements are a prominent trend in the single-cell genome sequencing market. These advancements are making the technology more efficient, cost-effective, and accessible to a wider range of researchers and industries.

Sequencing platforms with high throughput are enabling the analysis of a larger number of individual cells simultaneously. This accelerates research and lowers the cost per cell. Manufacturers are developing user-friendly platforms with streamlined workflows and pre-optimized protocols. These platforms make single-cell sequencing more accessible and reduce the barriers to entry for researchers. Technological advancements have enabled the integration of multi-omics data from single cells, allowing researchers to simultaneously analyze genomics, transcriptomics, epigenomics, and proteomics data. The emergence of spatial transcriptomics, made possible by technological advancements, enables the study of the spatial organization of individual cells within tissues, providing insights into the spatial context of gene expression.

Industry Collaboration and Partnerships

Collaboration and partnerships between biotechnology and pharmaceutical companies, research institutions, and academic organizations are another key trend driving the growth of the Single Cell Genome Sequencing Market.

Biotechnology and pharmaceutical companies are increasingly partnering with research institutions to develop diagnostics and therapies based on single-cell sequencing data. This collaboration accelerates the translation of research findings into practical applications. Government agencies and non-profit organizations are promoting global collaboration in genomics research. Funding often comes with requirements for international cooperation, fostering knowledge sharing and cross-border research. Initiatives aimed at sharing single-cell sequencing data are on the rise. Open-access databases and data-sharing platforms make valuable data available to the wider

scientific community, facilitating further research and innovation.

Segmental Insights

Product Type Insights

Based on the category of Product Type, the Instruments segment emerged as the dominant player in the global market for Single Cell Genome Sequencing in 2022. The development of advanced sequencing platforms, such as droplet-based systems and microfluidic technologies, has been a driving force in the Instruments segment's dominance. These platforms allow for the simultaneous sequencing of thousands of individual cells, making single-cell sequencing more efficient and cost-effective.

Instruments that offer high throughput are in high demand, as they enable researchers to analyze a large number of cells in a shorter timeframe. This is crucial for comprehensive studies and large-scale projects, particularly in clinical and pharmaceutical research. Modern instruments are capable of handling multi-omics data from single cells, which is becoming increasingly important in genomics research. The ability to simultaneously analyze genomics, transcriptomics, epigenomics, and proteomics data from individual cells enhances the value of these instruments.

The increasing integration of single-cell genome sequencing into clinical and diagnostic applications has boosted the demand for instruments in this segment. These instruments play a vital role in diagnosing diseases, monitoring treatment responses, and advancing personalized medicine. Instruments are essential for cancer research, enabling the study of tumor heterogeneity and the identification of genetic mutations associated with cancer. High-throughput sequencing platforms are particularly important in this context. Instruments are used in non-invasive prenatal testing (NIPT) to analyze fetal DNA from maternal blood. The accuracy and efficiency of these instruments make them integral to this diagnostic application. Investments and funding from government agencies and private sector companies have fueled the research and development of advanced instruments. These financial resources support the creation of innovative, user-friendly, and high-throughput instruments. Investments have played a role in making single-cell sequencing instruments more accessible by reducing their initial costs. This affordability has encouraged a broader range of research institutions to adopt these instruments. These factors are expected to drive the growth of this segment.

Technology Insight

Based on the category of Technology, the PCR segment emerged as the dominant player in the global market for Single Cell Genome Sequencing in 2022. PCR is fundamental in single-cell genome sequencing because it is used to amplify the limited amount of DNA present in individual cells. The genetic material within a single cell is often insufficient for direct sequencing, and PCR is employed to generate a larger quantity of DNA for subsequent analysis.

PCR is known for its high sensitivity and specificity. This is particularly important when dealing with the minuscule amount of genetic material in a single cell. PCR can selectively amplify the DNA of interest, making it a valuable tool for single-cell analysis. In the context of single-cell genome sequencing, Whole Genome Amplification (WGA) is a technique that uses PCR to amplify the entire genome of a single cell. This is crucial for obtaining a representative and comprehensive genomic profile from a single cell. PCR is often used in the pre-processing of samples before sequencing. In the single-cell sequencing workflow, it can be employed to amplify specific regions of interest or to prepare the DNA for library preparation and sequencing. These factors are expected to drive the growth of this segment.

Workflow Insight

Based on the category of Workflow, the Genomic Analysis segment emerged as the dominant player in the global market for Single Cell Genome Sequencing in 2022. Genomic analysis is the core component of single-cell sequencing workflows, responsible for generating and interpreting the data from individual cells. It involves techniques for DNA sequencing, RNA sequencing, and other -omics analysis, which are fundamental to understanding the genetic content of single cells.

Genomic analysis provides comprehensive insights into the genetic makeup of individual cells. It reveals the DNA mutations, gene expression patterns, and epigenetic modifications, which are crucial for understanding cellular heterogeneity, disease mechanisms, and developmental processes. The Genomic Analysis segment includes whole genome sequencing (WGS) techniques, which are essential for obtaining a complete genomic profile from single cells. This allows for a deep understanding of genetic variations and heterogeneity within cell populations. These factors are expected to drive the growth of this segment.

Disease Area Insight

Based on the category of Disease Area, the Cancer segment emerged as the dominant player in the global market for Single Cell Genome Sequencing in 2022. Single-cell genome sequencing is particularly well-suited to study cancer due to the heterogeneity of tumor cells. Tumors consist of diverse cell populations with distinct genetic mutations, making single-cell analysis essential for understanding the genetic makeup of individual cancer cells.

Single-cell genome sequencing plays a crucial role in advancing precision medicine for cancer. It allows for the identification of specific genetic mutations and alterations in individual cancer cells. This information is vital for tailoring therapies to the genetic profile of a patient's tumor, improving treatment outcomes, and minimizing side effects. Understanding the genetic variations and mutations in cancer cells is essential for combating treatment resistance. Single-cell sequencing helps identify the emergence of subpopulations of cells with drug resistance mutations, allowing for the adjustment of treatment strategies. Single-cell sequencing enables the tracking of clonal evolution within tumors. This is vital for understanding how tumors evolve over time, which clones are responsible for metastasis, and which mutations are critical for tumor progression. These factors are expected to drive the growth of this segment.

Application Insights

The circulating cells segment is projected to experience rapid growth during the forecast period. The Circulating Cell segment offers non-invasive methods for biomarker detection in various disease areas, particularly cancer. Circulating tumor cells (CTCs) and cell-free DNA (cfDNA) provide a valuable source of genetic material for early disease detection, monitoring treatment responses, and tracking disease progression. In the context of cancer, single-cell genome sequencing of CTCs and cfDNA is instrumental in early cancer detection, particularly in cases of metastatic cancers. The ability to capture and analyze CTCs or cfDNA at the single-cell level provides a minimally invasive alternative to traditional tissue biopsies. The Circulating Cell segment allows for real-time monitoring of treatment responses. By tracking genetic changes in CTCs or cfDNA during therapy, clinicians can assess the effectiveness of treatment, identify potential drug resistance, and make timely adjustments to the treatment plan. These factors collectively contribute to the growth of this segment.

End-User Insight

Based on the category of End-User, the academic & research laboratories segment emerged as the dominant player in the global market for Single Cell Genome

Sequencing in 2022. Academic and research laboratories are hubs for innovation in genomics and molecular biology. These institutions are at the forefront of developing and optimizing single-cell genome sequencing technologies, protocols, and workflows. Academic and research laboratories are focused on exploring the basic biology of organisms and diseases. Single-cell genome sequencing allows researchers to delve into the intricacies of individual cells, uncovering unique genetic variations and gene expression patterns. These laboratories drive disease-specific research using single-cell genome sequencing. From cancer to neurodegenerative diseases, they investigate the genetic basis of various disorders and seek insights into disease mechanisms. The study of cellular heterogeneity is a significant focus for academic and research laboratories. Researchers aim to understand the differences in gene expression and genetic mutations between individual cells within a population, which is critical in many biological and medical contexts. These factors collectively contribute to the growth of this segment.

Regional Insights

North America emerged as the dominant player in the global Single Cell Genome Sequencing market in 2022, holding the largest market share in terms of value. The predominant position of North America can be ascribed to a range of factors. These encompass the growing prevalence of cancer and chronic diseases in the region, ongoing technological advancements, and substantial research and development initiatives by North American companies. Furthermore, the proliferation of genomic clinics in the area has further reinforced its leadership in the market.

The Asia-Pacific market is poised to be the fastest-growing market, offering lucrative growth opportunities for Single Cell Genome Sequencing players during the forecast period. Factors such as the key factors fueling growth is the expanding elderly population, which is resulting in a higher incidence of chronic illnesses among patients. Furthermore, the region is expected to experience notable improvements in healthcare infrastructure, driven by the endeavors of emerging nations to bolster their economies.

Key Market Players

Bio-Rad Laboratories Inc

10x Genomics Inc

Novogene Co. Ltd

BGI Genomics Co Ltd.

Illumina, Inc.

Oxford Nanopore Technologies Plc

Pacific Biosciences Laboratories Inc

Thermo Fisher Scientific, Inc.

QIAGEN GmbH

F. Hoffmann-La-Roche Ltd

Report Scope:

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

Single Cell Genome Sequencing Market, By Product Type:

Instruments

Reagents

Single Cell Genome Sequencing Market, By Technology:

NGS

PCR

qPCR

Microarray

MDA

Single Cell Genome Sequencing Market, By Workflow:

NGS

PCR

qPCR

Microarray

MDA

Single Cell Genome Sequencing Market, By Disease Area:

Cancer

Immunology

Prenatal Diagnosis

Neurobiology

Microbiology

Others

Single Cell Genome Sequencing Market, By Application:

Circulating Cells

Cell Differentiation/Reprogramming

Genomic Variation

Subpopulation Characterization

Others

Single Cell Genome Sequencing Market, By End-User:

Academic & Research Laboratories

Biotechnology & Biopharmaceutical Companies

Clinics

Others

Single Cell Genome Sequencing Market, By Region:

North America

United States

Canada

Mexico

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

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Single Cell Genome Sequencing Market.

Available Customizations:

Global Single Cell Genome Sequencing market report with the given market data, Tech Sci 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL SINGLE CELL GENOME SEQUENCING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product Type (Instruments, Reagents)
 - 5.2.2. By Technology (NGS, PCR, qPCR, Microarray, MDA)
 - 5.2.3. By Workflow (Genomic Analysis, Single Cell Isolation, Sample Preparation)

5.2.4. By Disease Area (Cancer, Immunology, Prenatal Diagnosis, Neurobiology, Microbiology, Others)

5.2.5. By Application (Circulating Cells, Cell Differentiation/Reprogramming, Genomic Variation, Subpopulation Characterization, Others)

5.2.6. By End-User (Academic & Research Laboratories, Biotechnology & Biopharmaceutical Companies, Clinics, Others)

5.2.7. By Region

5.2.8. By Company (2022)

5.3. Market Map

6. NORTH AMERICA SINGLE CELL GENOME SEQUENCING MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product Type

6.2.2. By Technology

6.2.3. By Workflow

6.2.4. By Disease Area

6.2.5. By Application

6.2.6. By End-User

6.2.7. By Country

6.3. North America: Country Analysis

6.3.1. United States Single Cell Genome Sequencing Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product Type

6.3.1.2.2. By Technology

6.3.1.2.3. By Workflow

6.3.1.2.4. By Disease Area

6.3.1.2.5. By Application

6.3.1.2.6. By End-User

6.3.2. Canada Single Cell Genome Sequencing Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product Type

6.3.2.2.2. By Technology

- 6.3.2.2.3. By Workflow
- 6.3.2.2.4. By Disease Area
- 6.3.2.2.5. By Application
- 6.3.2.2.6. By End-User
- 6.3.3. Mexico Single Cell Genome Sequencing Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Product Type
 - 6.3.3.2.2. By Technology
 - 6.3.3.2.3. By Workflow
 - 6.3.3.2.4. By Disease Area
 - 6.3.3.2.5. By Application
 - 6.3.3.2.6. By End-User

7. EUROPE SINGLE CELL GENOME SEQUENCING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product Type
 - 7.2.2. By Technology
 - 7.2.3. By Workflow
 - 7.2.4. By Disease Area
 - 7.2.5. By Application
 - 7.2.6. By End-User
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Single Cell Genome Sequencing Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Product Type
 - 7.3.1.2.2. By Technology
 - 7.3.1.2.3. By Workflow
 - 7.3.1.2.4. By Disease Area
 - 7.3.1.2.5. By Application
 - 7.3.1.2.6. By End-User
 - 7.3.2. United Kingdom Single Cell Genome Sequencing Market Outlook
 - 7.3.2.1. Market Size & Forecast

- 7.3.2.1.1. By Value
- 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Product Type
 - 7.3.2.2.2. By Technology
 - 7.3.2.2.3. By Workflow
 - 7.3.2.2.4. By Disease Area
 - 7.3.2.2.5. By Application
 - 7.3.2.2.6. By End-User
- 7.3.3. Italy Single Cell Genome Sequencing Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Product Type
 - 7.3.3.2.2. By Technology
 - 7.3.3.2.3. By Workflow
 - 7.3.3.2.4. By Disease Area
 - 7.3.3.2.5. By Application
 - 7.3.3.2.6. By End-User
- 7.3.4. France Single Cell Genome Sequencing Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Product Type
 - 7.3.4.2.2. By Technology
 - 7.3.4.2.3. By Workflow
 - 7.3.4.2.4. By Disease Area
 - 7.3.4.2.5. By Application
 - 7.3.4.2.6. By End-User
- 7.3.5. Spain Single Cell Genome Sequencing Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Product Type
 - 7.3.5.2.2. By Technology
 - 7.3.5.2.3. By Workflow
 - 7.3.5.2.4. By Disease Area
 - 7.3.5.2.5. By Application
 - 7.3.5.2.6. By End-User

8. ASIA-PACIFIC SINGLE CELL GENOME SEQUENCING MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Product Type

8.2.2. By Technology

8.2.3. By Workflow

8.2.4. By Disease Area

8.2.5. By Application

8.2.6. By End-User

8.3. Asia-Pacific: Country Analysis

8.3.1. China Single Cell Genome Sequencing Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Product Type

8.3.1.2.2. By Technology

8.3.1.2.3. By Workflow

8.3.1.2.4. By Disease Area

8.3.1.2.5. By Application

8.3.1.2.6. By End-User

8.3.2. India Single Cell Genome Sequencing Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Product Type

8.3.2.2.2. By Technology

8.3.2.2.3. By Workflow

8.3.2.2.4. By Disease Area

8.3.2.2.5. By Application

8.3.2.2.6. By End-User

8.3.3. Japan Single Cell Genome Sequencing Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Product Type

8.3.3.2.2. By Technology

8.3.3.2.3. By Workflow

- 8.3.3.2.4. By Disease Area
- 8.3.3.2.5. By Application
- 8.3.3.2.6. By End-User
- 8.3.4. South Korea Single Cell Genome Sequencing Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Product Type
 - 8.3.4.2.2. By Technology
 - 8.3.4.2.3. By Workflow
 - 8.3.4.2.4. By Disease Area
 - 8.3.4.2.5. By Application
 - 8.3.4.2.6. By End-User
- 8.3.5. Australia Single Cell Genome Sequencing Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Product Type
 - 8.3.5.2.2. By Technology
 - 8.3.5.2.3. By Workflow
 - 8.3.5.2.4. By Disease Area
 - 8.3.5.2.5. By Application
 - 8.3.5.2.6. By End-User

9. SOUTH AMERICA SINGLE CELL GENOME SEQUENCING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product Type
 - 9.2.2. By Technology
 - 9.2.3. By Workflow
 - 9.2.4. By Disease Area
 - 9.2.5. By Application
 - 9.2.6. By End-User
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Single Cell Genome Sequencing Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value

- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product Type
 - 9.3.1.2.2. By Technology
 - 9.3.1.2.3. By Workflow
 - 9.3.1.2.4. By Disease Area
 - 9.3.1.2.5. By Application
 - 9.3.1.2.6. By End-User
- 9.3.2. Argentina Single Cell Genome Sequencing Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product Type
 - 9.3.2.2.2. By Technology
 - 9.3.2.2.3. By Workflow
 - 9.3.2.2.4. By Disease Area
 - 9.3.2.2.5. By Application
 - 9.3.2.2.6. By End-User
- 9.3.3. Colombia Single Cell Genome Sequencing Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Product Type
 - 9.3.3.2.2. By Technology
 - 9.3.3.2.3. By Workflow
 - 9.3.3.2.4. By Disease Area
 - 9.3.3.2.5. By Application
 - 9.3.3.2.6. By End-User

10. MIDDLE EAST AND AFRICA SINGLE CELL GENOME SEQUENCING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Product Type
 - 10.2.2. By Technology
 - 10.2.3. By Workflow
 - 10.2.4. By Disease Area
 - 10.2.5. By Application

10.2.6. By End-User

10.3. MEA: Country Analysis

10.3.1. South Africa Single Cell Genome Sequencing Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Product Type

10.3.1.2.2. By Technology

10.3.1.2.3. By Workflow

10.3.1.2.4. By Disease Area

10.3.1.2.5. By Application

10.3.1.2.6. By End-User

10.3.2. Saudi Arabia Single Cell Genome Sequencing Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Product Type

10.3.2.2.2. By Technology

10.3.2.2.3. By Workflow

10.3.2.2.4. By Disease Area

10.3.2.2.5. By Application

10.3.2.2.6. By End-User

10.3.3. UAE Single Cell Genome Sequencing Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Product Type

10.3.3.2.2. By Technology

10.3.3.2.3. By Workflow

10.3.3.2.4. By Disease Area

10.3.3.2.5. By Application

10.3.3.2.6. By End-User

11. MARKET DYNAMICS

11.1. Drivers & Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Recent Developments
- 12.2. Product Launches
- 12.3. Mergers & Acquisitions

13. GLOBAL SINGLE CELL GENOME SEQUENCING MARKET: SWOT ANALYSIS

14. COMPETITIVE LANDSCAPE

- 14.1. Bio-Rad Laboratories Inc
 - 14.1.1. Business Overview
 - 14.1.2. Technology Offerings
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel
 - 14.1.5. SWOT Analysis
- 14.2. 10x Genomics Inc
- 14.3. Novogene Ltd.
- 14.4. BGI Genomics Co Ltd.
- 14.5. Illumina, Inc.
- 14.6. Oxford Nanopore Technologies Plc
- 14.7. Pacific Biosciences Laboratories Inc
- 14.8. Thermo Fisher Scientific, Inc.
- 14.9. QIAGEN GmbH
- 14.10. F. Hoffmann-La-Roche Ltd.

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

I would like to order

Product name: Single Cell Genome Sequencing Market – Global Industry Size, Share, Trends, Opportunity, & Forecast 2018-2028 Segmented By Product Type (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, Competition

Product link: <https://marketpublishers.com/r/SCB28A8E5C9CEN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SCB28A8E5C9CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970