

# **Clinical Oncology Next Generation Sequencing Market Size, Trends, Analysis, and Outlook By Technology (Whole Genome Sequencing, Whole Exome Sequencing, Targeted Sequencing & Resequencing Centrifuges), By Workflow (NGS Pre-Sequencing, NGS Sequencing, NGS Data Analysis), By Application (Screening, Companion Diagnostics, Others), By End-User (Hospitals, Clinics, Laboratories), by Region, Country, Segment, and Companies, 2024-2030**

<https://marketpublishers.com/r/CEFDA2E67F5AEN.html>

Date: March 2024

Pages: 190

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

ID: CEFDA2E67F5AEN

## **Abstracts**

The global Clinical Oncology Next Generation Sequencing market size is poised to register 15.5% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Clinical Oncology Next Generation Sequencing market across By Technology (Whole Genome Sequencing, Whole Exome Sequencing, Targeted Sequencing & Resequencing Centrifuges), By Workflow (NGS Pre-Sequencing, NGS Sequencing, NGS Data Analysis), By Application (Screening, Companion Diagnostics, Others), By End-User (Hospitals, Clinics, Laboratories).

The clinical oncology next-generation sequencing (NGS) market is experiencing rapid growth due to increasing adoption of genomic profiling in cancer diagnosis, advancements in sequencing technologies, and expanding applications of precision oncology. Clinical oncology NGS involves the comprehensive analysis of tumor genomes, transcriptomes, and epigenomes using high-throughput sequencing platforms to identify somatic mutations, copy number alterations, and gene expression patterns associated with cancer progression, treatment response, and drug resistance. With a

focus on molecular diagnostics and personalized cancer therapy, oncologists, pathologists, and molecular geneticists are utilizing NGS-based assays, tumor sequencing panels, and liquid biopsy tests to guide treatment decisions, stratify patient populations, and monitor disease dynamics in cancer care, facilitating targeted therapy selection, clinical trial enrollment, and therapeutic monitoring in oncology practice.

## Clinical Oncology Next Generation 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 Clinical Oncology Next Generation Sequencing market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Clinical Oncology Next Generation 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 Clinical Oncology Next Generation Sequencing industry.

## Key market trends defining the global Clinical Oncology Next Generation 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.

## Clinical Oncology Next Generation Sequencing Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Clinical Oncology Next Generation 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 Clinical Oncology Next Generation Sequencing companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Clinical Oncology Next Generation

## Sequencing industry

Leading Clinical Oncology Next Generation 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 Clinical Oncology Next Generation Sequencing companies.

### Clinical Oncology Next Generation Sequencing Market Study- Strategic Analysis Review

The Clinical Oncology Next Generation 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.

### Clinical Oncology Next Generation Sequencing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Clinical Oncology Next Generation 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.

## Clinical Oncology Next Generation 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 Clinical Oncology Next Generation 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 Clinical Oncology Next Generation Sequencing market segments. Similarly, Strong end-user demand is encouraging Canadian Clinical Oncology Next Generation Sequencing companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Clinical Oncology Next Generation Sequencing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Clinical Oncology Next Generation 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 Clinical Oncology Next Generation 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 Clinical Oncology Next Generation 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 Clinical Oncology Next Generation 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 Clinical Oncology Next Generation Sequencing in Asia Pacific. In particular, China, India, and South East Asian Clinical Oncology Next Generation 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 Clinical Oncology Next Generation 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 Clinical Oncology Next Generation 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 Clinical Oncology Next Generation Sequencing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Clinical Oncology Next Generation Sequencing.

#### Clinical Oncology Next Generation Sequencing Market Company Profiles

The global Clinical Oncology Next Generation 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 Agilent Technologies, Beijing Genomics Institute (BGI), Caris Life Sciences, Eurofins Scientific S.E., Exact Science, F. Hoffmann-La Roche Ltd, Foundation Medicine, Illumina Inc, Myriad Genetics, Oxford Nanopore Technologies Ltd, Pacific Bioscience, Partek Inc, Perkin Elmer, Qiagen N.V., Thermo Fisher Scientific

## Recent Clinical Oncology Next Generation Sequencing Market Developments

The global Clinical Oncology Next Generation Sequencing market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

### Clinical Oncology Next Generation 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:

By Technology

Whole Genome Sequencing

Whole Exome Sequencing

Targeted Sequencing & Resequencing Centrifuges

By Workflow

NGS Pre-Sequencing

NGS Sequencing

NGS Data Analysis

By Application

Screening

-Sporadic Cancer

-Inherited Cancer

Companion Diagnostics

Others

By End-user

Hospitals

Clinics

Laboratories

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Agilent Technologies

Beijing Genomics Institute (BGI)

Caris Life Sciences

Eurofins Scientific S.E.

Exact Science

F. Hoffmann-La Roche Ltd

Foundation Medicine

Illumina Inc

Myriad Genetics

Oxford Nanopore Technologies Ltd

Pacific Bioscience

Partek Inc

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Formats Available: Excel, PDF, and PPT

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Whole Exome Sequencing

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By Workflow

NGS Pre-Sequencing

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NGS Data Analysis

By Application

Screening

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Beijing Genomics Institute (BGI)

Caris Life Sciences

Eurofins Scientific S.E.

Exact Science

F. Hoffmann-La Roche Ltd

Foundation Medicine

Illumina Inc

Myriad Genetics

Oxford Nanopore Technologies Ltd

Pacific Bioscience

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