

Next Generation Sequencing Market Size, Trends, Analysis, and Outlook By Product (NGS Consumables, Sequencing Services, Presequencing Products & Services, NGS Platforms, Bioinformatics, Management & Cloud Computing Solutions, Services for NGS Platforms), By Technology (Sequencing By Synthesis (ION Semiconductor Sequencing, Nanopore Sequencing, Single-Molecule Real-Time Sequencing, Others), By Application (Diagnostics, Drug Discovery & Development, Agricultural & Animal Research, Others), By End-User (Academic Institutes & Research Centers, Pharmaceutical & Biotechnology Companies, Hospitals & Clinics, Reference Laboratories, Others), by Country, Segment, and Companies, 2024-2032

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Abstracts

The global Next Generation Sequencing market size is poised to register 19.5% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Next Generation Sequencing market across By Product (NGS Consumables, Sequencing Services, Presequencing Products & Services, NGS Platforms, Bioinformatics, Management & Cloud Computing Solutions, Services for NGS Platforms), By Technology (Sequencing By Synthesis (ION Semiconductor Sequencing, Nanopore Sequencing, Single-Molecule Real-Time Sequencing, Others), By Application (Diagnostics, Drug Discovery & Development,

Agricultural & Animal Research, Others), By End-User (Academic Institutes & Research Centers, Pharmaceutical & Biotechnology Companies, Hospitals & Clinics, Reference Laboratories, Others)

The future of the Next Generation Sequencing (NGS) market is driven by technological advancements, decreasing sequencing costs, and expanding applications in genomics research, clinical diagnostics, and personalized medicine. NGS technologies enable high-throughput sequencing of nucleic acids, offering unprecedented insights into genetic variation, gene expression, and molecular pathways underlying human health and disease. With the continuous development of sequencing platforms, bioinformatics tools, and library preparation kits, there is a growing interest in NGS for a wide range of applications, including cancer genomics, infectious disease surveillance, and pharmacogenomics. Further, the integration of NGS with other omics technologies such as proteomics and metabolomics is driving synergistic approaches for comprehensive molecular profiling and systems biology research. Over the forecast period to 2030, expanding applications in population genomics, precision oncology, and prenatal screening, coupled with increasing investments in NGS infrastructure and data analytics, are expected to drive market growth and innovation, enabling researchers and clinicians to unravel the complexities of the human genome and develop targeted therapies for improved patient outcomes.

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

Key market trends defining the global 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.

Next Generation Sequencing Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The 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 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 Next Generation Sequencing industry

Leading 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 Next Generation Sequencing companies.

Next Generation Sequencing Market Study- Strategic Analysis Review

The 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.

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

The 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 2032 in three case scenarios- low case, reference case, and high case scenarios.

Next Generation Sequencing Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. 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 2032.

North America 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 healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to \$4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various Next Generation Sequencing market segments. Similarly, Strong market demand is encouraging Canadian Next Generation Sequencing companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico Next Generation Sequencing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe 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 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 vendors in

identifying and leveraging new growth prospects positions the European 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 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 Next Generation Sequencing in Asia Pacific. In particular, China, India, and South East Asian Next Generation Sequencing markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors 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 countries in the APAC region.

Latin America 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 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 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 Next Generation Sequencing.

Next Generation Sequencing Market Company Profiles

The global 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 10x Genomics Inc, Agilent Technologies Inc, BGI Group, Brooks Automation Inc, CD Genomics, Eurofins Scientific SE, F. Hoffmann-La Roche AG, Illumina Inc, New England Biolabs Inc, Novogene Corp Inc, Oxford Nanopore Technologies Ltd, Pacific Biosciences of California Inc, PerkinElmer Inc, Promega Corp, Psomagen Inc, QIAGEN N.V., Takara Bio Inc, Tecan Group Ltd, Thermo Fisher Scientific Inc, Zymo Research Corp.

Recent Next Generation Sequencing Market Developments

The global 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.

Next Generation Sequencing Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (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 Product

NGS Consumables

Sequencing Services

Presequencing Products & Services

NGS Platforms

Bioinformatics

Management & Cloud Computing Solutions

Services for NGS Platforms

By Technology

Sequencing By Synthesis

ION Semiconductor Sequencing

Nanopore Sequencing

Single-Molecule Real-Time Sequencing

Others

By Application

Diagnostics

Drug Discovery & Development

Agricultural & Animal Research

Others

By End-User

Academic Institutes & Research Centers

Pharmaceutical & Biotechnology Companies

Hospitals & Clinics

Reference Laboratories

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 Inc

Agilent Technologies Inc

BGI Group

Brooks Automation Inc

CD Genomics

Eurofins Scientific SE

F. Hoffmann-La Roche AG

Illumina Inc

New England Biolabs Inc

Novogene Corp Inc

Oxford Nanopore Technologies Ltd

Pacific Biosciences of California Inc

PerkinElmer Inc

Promega Corp

Psomagen Inc

QIAGEN N.V.

Takara Bio Inc

Tecan Group Ltd

Thermo Fisher Scientific Inc

Zymo Research Corp

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Contents

1. EXECUTIVE SUMMARY

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

2. NEXT GENERATION SEQUENCING MARKET SIZE OUTLOOK TO 2030

- 2.1 Next Generation Sequencing Market Size Outlook, USD Million, 2021- 2030
- 2.2 Next Generation Sequencing Incremental Market Growth Outlook, %, 2021- 2030
- 2.3 Segment Snapshot, 2024

3. NEXT GENERATION 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. NEXT GENERATION 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
 - NGS Consumables
 - Sequencing Services

Presequencing Products & Services

NGS Platforms

Bioinformatics

Management & Cloud Computing Solutions

Services for NGS Platforms

By Technology

Sequencing By Synthesis

ION Semiconductor Sequencing

Nanopore Sequencing

Single-Molecule Real-Time Sequencing

Others

By Application

Diagnostics

Drug Discovery & Development

Agricultural & Animal Research

Others

By End-User

Academic Institutes & Research Centers

Pharmaceutical & Biotechnology Companies

Hospitals & Clinics

Reference Laboratories

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 Next Generation Sequencing Market, 2025

5.2 Asia Pacific Next Generation Sequencing Market Size Outlook by Type, 2021- 2030

5.3 Asia Pacific Next Generation Sequencing Market Size Outlook by Application, 2021-2030

5.4 Key Findings for Europe Next Generation Sequencing Market, 2025

5.5 Europe Next Generation Sequencing Market Size Outlook by Type, 2021- 2030

5.6 Europe Next Generation Sequencing Market Size Outlook by Application, 2021-2030

5.7 Key Findings for North America Next Generation Sequencing Market, 2025

5.8 North America Next Generation Sequencing Market Size Outlook by Type, 2021-2030

5.9 North America Next Generation Sequencing Market Size Outlook by Application,

2021- 2030

5.10 Key Findings for South America Next Generation Sequencing Market, 2025

5.11 South America Pacific Next Generation Sequencing Market Size Outlook by Type, 2021- 2030

5.12 South America Next Generation Sequencing Market Size Outlook by Application, 2021- 2030

5.13 Key Findings for Middle East and Africa Next Generation Sequencing Market, 2025

5.14 Middle East Africa Next Generation Sequencing Market Size Outlook by Type, 2021- 2030

5.15 Middle East Africa Next Generation Sequencing Market Size Outlook by Application, 2021- 2030

6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030

6.1 US Next Generation Sequencing Market Size Outlook and Revenue Growth Forecasts

6.2 US Next Generation Sequencing Industry Drivers and Opportunities

6.3 Canada Market Size Outlook and Revenue Growth Forecasts

6.4 Canada Next Generation Sequencing Industry Drivers and Opportunities

6.6 Mexico Market Size Outlook and Revenue Growth Forecasts

6.6 Mexico Next Generation Sequencing Industry Drivers and Opportunities

6.7 Germany Market Size Outlook and Revenue Growth Forecasts

6.8 Germany Next Generation Sequencing Industry Drivers and Opportunities

6.9 France Market Size Outlook and Revenue Growth Forecasts

6.10 France Next Generation Sequencing Industry Drivers and Opportunities

6.11 UK Market Size Outlook and Revenue Growth Forecasts

6.12 UK Next Generation Sequencing Industry Drivers and Opportunities

6.13 Spain Market Size Outlook and Revenue Growth Forecasts

6.14 Spain Next Generation Sequencing Industry Drivers and Opportunities

6.16 Italy Market Size Outlook and Revenue Growth Forecasts

6.16 Italy Next Generation Sequencing Industry Drivers and Opportunities

6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts

6.18 Rest of Europe Next Generation Sequencing Industry Drivers and Opportunities

6.19 China Market Size Outlook and Revenue Growth Forecasts

6.20 China Next Generation Sequencing Industry Drivers and Opportunities

6.21 India Market Size Outlook and Revenue Growth Forecasts

6.22 India Next Generation Sequencing Industry Drivers and Opportunities

6.23 Japan Market Size Outlook and Revenue Growth Forecasts

6.24 Japan Next Generation Sequencing Industry Drivers and Opportunities

- 6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
- 6.26 South Korea Next Generation Sequencing Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia Next Generation Sequencing Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia Next Generation Sequencing Industry Drivers and Opportunities
- 6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
- 6.32 Rest of Asia Pacific Next Generation Sequencing Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil Next Generation Sequencing Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
- 6.36 Argentina Next Generation Sequencing Industry Drivers and Opportunities
- 6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
- 6.38 Rest of South America Next Generation Sequencing Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East Next Generation Sequencing Industry Drivers and Opportunities
- 6.41 Africa Market Size Outlook and Revenue Growth Forecasts
- 6.42 Africa Next Generation Sequencing Industry Drivers and Opportunities

7. NEXT GENERATION SEQUENCING MARKET OUTLOOK ACROSS SCENARIOS

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

8. NEXT GENERATION SEQUENCING COMPANY PROFILES

- 8.1 Profiles of Leading Next Generation Sequencing Companies in the Market
- 8.2 Business Descriptions, SWOT Analysis, and Growth Strategies
- 8.3 Financial Performance and Key Metrics

10X GENOMICS INC

Agilent Technologies Inc
BGI Group
Brooks Automation Inc
CD Genomics

Eurofins Scientific SE
F. Hoffmann-La Roche AG
Illumina Inc
New England Biolabs Inc
Novogene Corp Inc
Oxford Nanopore Technologies Ltd
Pacific Biosciences of California Inc
PerkinElmer Inc
Promega Corp
Psomagen Inc
QIAGEN N.V.
Takara Bio Inc
Tecan Group Ltd
Thermo Fisher Scientific Inc
Zymo Research Corp.

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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