

Global Next Generation Sequencing (NGS) Market (By Products - Consumables, Platforms, Services, Sequencing Services, Bioinformatics, Technology, Applications, End Users, Regions), Impact of COVID-19, Recent Developments, Key Company Profiles - Forecast to 2026

<https://marketpublishers.com/r/GE2A4C13575BEN.html>

Date: May 2021

Pages: 228

Price: US\$ 2,490.00 (Single User License)

ID: GE2A4C13575BEN

Abstracts

The global next generation sequencing market is expected to reach nearly US\$ 20 Billion by 2026. Next generation sequencing (NGS) is a novel procedure for sequencing genomes at low costs and high speed with improved efficiency. NGS is a technology in which millions and billions of DNA strands can be sequenced through massive parallelization. The market is driven by factors such as advancements in NGS platforms, decreasing cost of sequencing, improving regulatory & reimbursement scenario for NGS-based diagnostic tests, initiatives from government & private bodies for large-scale sequencing projects, and increasing application of NGS in precision medicine & molecular diagnostics. In addition, rise in awareness pertaining to next generation sequencing and increase in investment in research, development, and innovation supplement the market growth. However, lack of skilled professionals, and ethical & legal limitations are projected to impede the growth of the next generation sequencing market.

Impact of COVID-19 on Global Next Generation Sequencing (NGS) Market

The COVID-19 outbreak has become a global stress test. The disease has infected over 159 Million people worldwide. Globally the death toll has reached 3,312,333 according to the latest statistics from the Worldometers (as of May 10, 2021). The number is still growing, and the duration of the pandemic is still difficult to predict. The

COVID-19 outbreak has positively impacted the next generation sequencing (NGS) market. Next-generation sequencing has a crucial role in the clinical labs and research to fight against the SARS-CoV-2, which results in the COVID-19. Next-generation sequencing (NGS) technology has the potential advantage of determining the genetic sequence of a virus and helping scientists understand the mutation of the virus. In June 2020, the United States Food and Drug Administration issued an emergency use authorization (EUA) to Illumina for the first COVID-19 diagnostic test utilizing next-generation sequence technology. The major factors such as increasing research and development activities utilizing the NGS technologies, growing applications of NGS in clinical diagnosis, rising prevalence of chronic diseases, and increasing demand for next generation sequencing due to COVID-19 are expected to drive the growth of the overall market.

By Products - Global Next Generation Sequencing (NGS) Market and Forecast

The consumables product segment dominates the global next generation sequencing market.

The Platforms segment is the second largest product segment of the global next generation sequencing market.

The NSG services segment is expected to register highest growth during the forecast period

Global Next Generation Sequencing (NGS) - Consumables Market and Forecast

The library preparation and target enrichment segment captured highest share of the global next generation sequencing (NGS) consumables market in 2020.

DNA Fragmentation, End Repair, A-Tailing and Size Selection segment held over one fourth share of the global next generation sequencing (NGS) consumables market in 2020.

Quality Control Kits & Reagents segment contributed least share of the overall next generation sequencing (NGS) consumables market in 2020.

Global Next Generation Sequencing (NGS) - Platforms Market and Forecast

HiSeq Series captured largest share of the next generation sequencing (NGS) platforms market, followed by Ion Torrent.

Sequel System and NovaSeq is competing closely with each other to grab maximum share of the pie.

iSeq held least share of the global next generation sequencing platforms market in 2020.

Global Next Generation Sequencing (NGS) - Services Market and Forecast

Sequencing Services Market and Forecast

Targeted Re-sequencing (TPS/WES) dominates the global sequencing services market segment.

RNA Sequencing is the second largest sequencing services as this segment held around a quarter of the market in 2020.

Whole genome sequencing (WGS) is the third largest sequencing services, followed by the Chip Sequencing services.

De Novo Sequencing and Methyl Sequencing is competing closely with each other to grab maximum share of the pie.

Bioinformatics Market and Forecast

NGS Informatics Services dominate the next generation sequencing bioinformatics market, followed by the primary and secondary data analysis tools.

Computing is the third largest segment of the next generation sequencing bioinformatics market.

Laboratory Information Management System (LIMS) is likely to capture nearly 11% share of the next generation sequencing bioinformatics market by 2026.

Global Next Generation Sequencing (NGS) - Technology Market and Forecast

Sequencing by synthesis (SBS) segment held maximum share of the next-generation sequencing market in 2020.

Ion semi-conductor sequencing is the second largest segment of the global next generation sequencing market, followed by SMRT (single molecule real time) sequencing.

Nanopore Sequencing held least share of the global next generation sequencing market.

Global Next Generation Sequencing (NGS) - Applications Market and Forecast

The reproductive health segment is the largest application of the next generation sequencing market.

Oncology (cancer) application is likely to contribute around 42% of the total next generation sequencing market revenue by 2026.

Rare Disease Diagnostics is the third largest application segment of the next generation sequencing market, followed by Metabolic and Immune (Diagnostic).

Cardiovascular (risk prediction and diagnostics) applications comprise a strong potential future market for NGS diagnostics.

Global Next Generation Sequencing (NGS) - End Users Market and Forecast

The academic research held maximum share of the next-generation sequencing market in 2020, followed by Hospitals.

Pharmaceutical and biotechnology companies segment accounted for over 12% revenue share in 2020.

Government research institutes held least share of the global next generation sequencing market.

Global Next Generation Sequencing (NGS) - Regional Market and Forecast

By region, North America is expected to dominate the global next generation sequencing market, followed by Europe.

According to the American Cancer Society, in 2021, there will be an estimated 1.9 million new cancer cases diagnosed and 608,570 cancer deaths in the United States.

Asia Pacific is likely to contribute nearly a quarter of the global next generation sequencing market revenue by 2026.

iGATE RESEARCH report titled “Global Next Generation Sequencing (NGS) Market (By Products - Consumables, Platforms, Services, Sequencing Services, Bioinformatics, Technology, Applications, End Users, Regions), Impact of COVID-19, Recent Developments, Key Company Profiles - Forecast to 2026” provides a comprehensive analysis of the Global Next Generation Sequencing Market.

This 228 Page report with 114 Figures and 18 Tables has been analyzed from 15 View Points:

- 1) Global Next Generation Sequencing (NGS) Market and Forecast (2015 - 2026)
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15) Global Next Generation Sequencing (NGS) Market - Growth Drivers & Challenges

By Products - Global Next Generation Sequencing (NGS) Market and Forecast

1. Consumables

2. Platforms

3. Services

Global Next Generation Sequencing (NGS) - Consumables Market and Forecast

1. Sample Preparation Market

DNA Fragmentation, End Repair, A-Tailing and Size Selection

Library Preparation and Target Enrichment

Quality Control Kits & Reagents

2. Other Consumables

Global Next Generation Sequencing (NGS) - Platforms Market and Forecast

1. HiSeq Series

2. MiSeq Series

3. NextSeq

4. MiniSeq

5. NovaSeq

6. iSeq

7. Ion Torrent

8. SOLiD

9. PacBio RS II

- 10. Sequel System
- 11. PromethION
- 12. Other Next-generation Sequencing Platforms

Global Next Generation Sequencing (NGS) - Services Market and Forecast

1. Sequencing Services Market

Targeted Re-sequencing (TPS/WES)

RNA Sequencing

Whole Genome Sequencing

Chip Sequencing

De Novo Sequencing

Methyl Sequencing

2. Bioinformatics Market

Primary and Secondary Data Analysis Tools

Storage

Biological Interpretation and Reporting Tools

Computing

LIMS (Laboratory Information Management System)

NGS Informatics Services

By Technology - Global Next Generation Sequencing (NGS) Market and Forecast

1. Sequencing by Synthesis

2. Ion Semiconductor Sequencing
3. Single-molecule Real-time Sequencing
4. Nanopore Sequencing
5. Other Sequencing Technologies

By Applications - Global Next Generation Sequencing (NGS) Market and Forecast

1. Reproductive Health
2. Rare Disease Diagnostics
3. Oncology (Cancer)
- 4 Metabolic Immune (Diagnostic)
5. Cardiovascular
6. Others

By End Users - Global Next Generation Sequencing (NGS) Market and Forecast

1. Academic Research
2. Healthcare
3. Biotech/Pharma
4. Government
5. Others

By Region - Global Next Generation Sequencing (NGS) Market and Forecast

1. North America
2. Europe
3. Asia Pacific
4. Rest of the World

Global Next Generation Sequencing (NGS) Market - Company Profiles, Recent Developments

1. Illumina
2. Thermo Fisher Scientific
3. Pacific Biosciences
4. Oxford Nanopore Technologies
5. Roche

Data Source

iGATE RESEARCH employs rigorous primary and secondary research techniques in developing distinctive data sets and research material for business reports. This report is built by using data and information sourced from Proprietary Information Database, Primary and Secondary Research Methodologies, and In house analysis by iGATE Research dedicated team of qualified professionals with deep industry experience and expertise.

Research Methodologies

Primary Research Methodologies: Questionnaires, Surveys, Interviews with Individuals, Small Groups, Telephonic Interview, etc.

Secondary Research Methodologies: Printable and Non-printable sources, Newspaper, Magazine and Journal Content, Government and NGO Statistics, white Papers, Information on the Web, Information from Agencies Such as Industry Bodies, Companies Annual Report, Government Agencies, Libraries and Local Councils and a large number of Paid Databases.

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