

# **Global Next Generation Sequencing (NGS) Market (By Products - Consumables, Platforms, Services, Sequencing Services, Bioinformatics, Technology, Applications, End Users, Regions), Key Company Profiles - Forecast to 2025**

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## **Abstracts**

The global next generation sequencing market is expected to surpass US\$ 18 Billion mark by 2025. 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.

### **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 2018.

DNA Fragmentation, End Repair, A-Tailing and Size Selection segment held around one fourth share of the global next generation sequencing (NGS) consumables market in 2018.

Quality Control Kits & Reagents segment contributed least share of the overall next generation sequencing (NGS) consumables market in 2018.

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

HiSeq Series captured largest share of the next generation sequencing (NGS) platforms market in 2018, followed by Ion Torrent.

MiSeq Series contributed over 9% to the total next generation sequencing platforms market in 2018, followed by SOLiD platform in the same year.

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

PromethION held least share of the global next generation sequencing platforms market in 2018.

### 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 over a quarter of the market in 2018.

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, followed by biological interpretation and reporting tools.

Laboratory Information Management System (LIMS) is likely to capture nearly 11% share of the next generation sequencing bioinformatics market by 2025.

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

Sequencing by synthesis (SBS) segment held maximum share of the next-generation sequencing market in 2018.

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 over 40% of the total next generation sequencing market revenue by 2025.

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 2018, followed by Hospitals.

Pharmaceutical and biotechnology companies segment accounted for over 12% revenue share in 2018.

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 National Cancer Institute (NCI), in 2018, approximately 1.7 Million of cancer cases were diagnosed in the U.S.

Asia Pacific is likely to contribute nearly a quarter of the global next generation sequencing market revenue by 2025.

iGATE RESEARCH report titled "Global Next Generation Sequencing (NGS) Market (By Products - Consumables, Platforms, Services, Sequencing Services, Bioinformatics, Technology, Applications, End Users, Regions), Key Company Profiles - Forecast to

2025” provides a comprehensive analysis of the Global Next Generation Sequencing Market.

This 195 Page report with 111 Figures and 18 Tables has been analyzed from 14 View Points:

- 1) Global Next Generation Sequencing (NGS) Market and Forecast (2014 - 2025)
- 2) Global Next Generation Sequencing (NGS) Market Share and Forecast (2014 - 2025)
- 3) By Products - Global Next Generation Sequencing (NGS) Market and Forecast (2014 - 2025)
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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. Ion Torrent
7. SOLiD
8. PacBio RS II
9. Sequel System
10. PromethION
11. 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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