

# **Next Generation Sequencing Market by Type (Consumables, NGS Platform, Software), Sequencing Type (Whole Genome, Targeted), Technology (Sequencing by Synthesis, Sequencing by Ligation), Application (Clinical, Research), End User - Global Forecasts to 2025**

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## **Abstracts**

Next Generation Sequencing Market by Type (Consumables, NGS Platform, Software), Sequencing Type (Whole Genome, Targeted), Technology (Sequencing by Synthesis, Sequencing by Ligation), Application (Clinical, Research), End User – Global Forecasts to 2025

The global next-generation sequencing market is expected to grow at a CAGR of 22.7% from 2019 to 2025 to reach \$14.6 billion by 2025.

Succeeding an extensive secondary and primary research and in-depth analysis of the market scenario, the report carries out an impact analysis of the key industry drivers, restraints, challenges, and opportunities. The factors such as technological advancements in sequencing procedures, surge in genome mapping programs, and increase in drug discovery platforms demanding NGS technology - are driving the growth of the global next-generation sequencing market. Moreover, growing government initiatives for large-scale genomic sequencing projects and emergence of cloud computing as a potential data management service supports the growth of this market. However, lack of skilled professionals hinders the adoption of NGS solutions, thereby restricting the growth of this market.

NGS Consumables segment is estimated to command the largest share of the global

next-generation sequencing market in 2019 and expected to continue its dominance during the forecast period mainly due to increasing use of sequencing reagents and kits for diagnostic procedures in diagnostic laboratories and recurrent use of consumables while sequencing procedures.

The next-generation sequencing market for clinical diagnostic laboratories (end user segment) segment is estimated to command the largest share of the overall NGS sequencing market in 2019. This is attributed to increasing volume of diagnostic procedures performed in clinical diagnostic laboratories, growing adoption of next-generation sequencing products, and high inclination towards genetic analysis in clinical diagnosis to provide tailored treatments.

An in-depth analysis of the geographical scenario of the next-generation sequencing market provides detailed qualitative and quantitative insights about the five major geographies (North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa) along with the coverage of major countries in each region. North America region is estimated to command the largest share of the global next-generation sequencing market in 2019, followed by Europe, Asia-Pacific, Latin America, and Middle East & Africa. The large share of North America is mainly attributed to easy availability of new technologies in the region, increasing research activities to assist development of personalized medicine, availability of skilled professionals, and presence of key players.

Key players operating in the global next-generation sequencing market are Illumina, Inc. (U.S.), Agilent Technologies, Inc. (U.S.), Bio-Rad Laboratories, Inc. (U.S.), Thermo Fisher Scientific Inc. (U.S.), Qiagen N.V. (Netherlands), PerkinElmer, Inc. (U.S.), F. Hoffmann-La Roche AG (Switzerland), 10X Genomics, Inc. (U.S.), Pacific Biosciences of California, Inc. (U.S.), Oxford Nanopore Technologies Ltd (U.K.), Beckman Coulter, Inc. (U.S.), GenapSys, Inc. (U.S.), New England Biolabs, Inc. (U.S.), PierianDx (U.S.), and BGI Genomics (China).

Scope of the Report:

Next-Generation Sequencing Market, by Type

Consumables

Sample Preparation Consumables

DNA Fragmentation & Amplification

Library Preparation & Target Enrichment

Quality Control

Other Consumables

(Note: Other consumables include vials, pipettes, containers, trays, tubes, and more)

NGS Platforms/Instruments

Illumina NGS Platforms/Instruments

MiSeq Series

NextSeq

MiniSeq

NovaSeq

iSeq

Thermo Fisher Scientific NGS Platforms/Instruments

Ion PGM

Ion Proton

Ion S5 & S5XL

Pacific Biosciences NGS Platforms/Instruments

PacBio RS II

Sequel systems

Oxford Nanopore NGS Platforms/Instruments

Others

Note: Other instruments used during NGS include PCR systems, automated liquid handling systems, electrophoresis devices, library preparation devices, and more

Software

Services

### Next-Generation Sequencing Market, by Sequencing Type

Whole Genome Sequencing

Whole Exome Sequencing

Targeted Sequencing

Others

Note: Other sequencing approaches include RNA sequencing, de-novo sequencing, degradome sequencing, miRNA sequencing, chromatin immunoprecipitation (ChIP) sequencing, and methylation sequencing

### Next-Generation Sequencing Market, by Technology

Sequencing by Synthesis

Ion Semiconductor Sequencing

Sequencing by Ligation

Single-Molecule Real-Time Sequencing

Nanopore Sequencing

Others

Note: Other sequencing technologies include Polony sequencing, pyrosequencing, DNA nanoball sequencing, and true Single Molecule Sequencing (tSMS)

## Next-Generation Sequencing Market, by Application

Clinical Application

Oncology

Reproductive Health Diagnostics

Non-Invasive Pre-natal Testing

Carrier Screening

In-Vitro fertilization

Newborn Screening

Cardiovascular

Others

Note: Other clinical applications include detection of genetic aberrations in neurological disorders, rare diseases, metabolic and immune disorders, and food borne illness

Research Application

Drug Discovery

Agriculture & Animal Research

Others

Note: Other research applications include food microbiology, microbiota analysis in beverage industry, and environmental studies

#### Next-Generation Sequencing Market, by End User

Clinical Diagnostic Laboratories

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Others

Note: Other end users include forensic departments, food companies, and hospitals

#### Next-Generation Sequencing Market, by Geography

North America

U.S.

Canada

Europe

Germany

France

U.K.

Spain

Italy

Rest of Europe (RoE)

Asia-Pacific (APAC)

China

India

Japan

Rest of APAC (RoAPAC)

Latin America

Middle East & Africa

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