

Next-generation Sequencing Services Market by Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequencing), Technology (Sequencing by Synthesis, Nanopore, SMRT), Application (Clinical Diagnosis, Biomarker Discovery), & End User - Forecast to 2028

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Abstracts

Global Next-generation Sequencing Services Market by Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequencing), Technology (Sequencing by Synthesis, Nanopore, SMRT), Application (Clinical Diagnosis, Biomarker Discovery), and End User - Forecast to 2028

The next-generation sequencing services market is expected to grow at a CAGR of 20.4% from 2021 to 2028 to reach \$14.1 billion by 2028.

Following a thorough secondary and primary research and in-depth analysis of the market scenario, the report discusses key industry drivers, restraints, challenges, and opportunities.

The growth of this market is mainly attributed to the reducing cost of NGS procedures, the development and approval of new targeted therapies, rising prevalence of cancer, partnerships between NGS service providers and pharmaceutical companies, high cost of sequencing infrastructure, and technological advancements in NGS. In addition, advancements in sequencing data analytics and the increasing applications of NGS in cancer and agri-genomics research are expected to offer significant growth opportunities for NGS service providers.

However, the availability of alternative technologies, lack of skilled professionals for sample preparation and analysis, and actionable mutations for precision medicine may

restrain the growth of the NGS services market. Moreover, regulatory & standardization concerns in diagnostic testing and the ethical issues & costs related to non-invasive prenatal genetic testing are major challenges for the growth of this market.

Based on type, the global NGS services market is segmented into targeted sequencing services, whole-genome sequencing services, RNA sequencing services, exome sequencing services, de novo sequencing services, ChIP sequencing services, methyl sequencing services, and other NGS services. In 2021, the targeted sequencing services segment is estimated to account for the largest share of the global NGS services market. The large share of this segment can be attributed to the relatively lower cost, faster turnaround time, and accurate, easy-to-interpret results of targeted sequencing in the study of disease-related genes.

Based on technology, the global NGS services market is segmented into sequencing by synthesis (SBS), ion semiconductor sequencing (IOS), single-molecule real-time sequencing (SMRT), nanopore sequencing, and other NGS technologies. In 2021, the sequencing by synthesis (SBS) segment is estimated to account for the largest share of the global NGS services market. This large share of this segment is attributed to its highest yield of error-free throughput, base call value above Q30, and higher accuracy in DNA sequencing compared to other sequencing technologies available in the market.

Based on application, the global NGS services market is segmented into biomarker discovery, diagnostics, drug discovery, agriculture & animal research, and other applications. In 2021, the diagnostics segment is estimated to account for the largest share of the global NGS services market. This segment's large share is mainly attributed to the significant use of NGS services in cancer diagnostics globally and improvements in NGS-based oncology and non-invasive prenatal tests (NIPT). Growing emphasis on utilizing NGS in cancer research fuels the growth of this market.

Based on end user, the global NGS services market is segmented into hospitals & clinics, pharmaceutical & biotechnology companies, academic & research institutes, and other end users. In 2021, the hospitals & clinics segment is estimated to account for the largest share of the global NGS services market. The largest share of this segment is attributed to factors such as high capital requirements for building in-house NGS capabilities in hospitals & clinics, the rising prevalence of cancer and other chronic diseases, the growing demand for advanced medical treatments, and the rising number of biomarker-based therapies.

An in-depth analysis of the geographical scenario of the next-generation sequencing

services market provides detailed qualitative and quantitative insights about the five major geographies (North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa) along with the coverage of major countries in each region. North America is expected to command the largest share of the global next-generation sequencing services market in 2021, followed by Europe and Asia-Pacific.

Key companies operating in the global next-generation sequencing services market are Illumina, Inc. (U.S.), QIAGEN N.V. (Netherlands), PerkinElmer, Inc. (U.S.), Eurofins Scientific S.E. (Luxembourg), Macrogen, Inc. (South Korea), LGC Limited (U.K.), GENEWIZ, Inc. (U.S.), Beijing Genomics Institute (BGI) (China), SciGenom Labs Pvt. Ltd (India), MedGenome Inc. (U.S.), DNA Link, Inc. (South Korea), Orogenetics Corporation (U.S.), Novogene Co., Ltd. (China), CD Genomics (U.S.), Foundation Medicine, Inc. (U.S.), and SeqLL, Inc. (U.S.).

Scope of the Report

Global Next-generation Sequencing Services Market, by Type

Targeted Sequencing Services

RNA Sequencing Services

De Novo Sequencing Services

Exome Sequencing Services

Chip Sequencing Services

Whole-genome Sequencing

Methyl Sequencing Services

Other Services

Global Next-generation Sequencing Services Market, by Technology

Sequencing By Synthesis (SBS)

Ion Semiconductor Sequencing (IOS)

Single-molecule Real-time Sequencing (SMRT)

Nanopore Sequencing

Other Technologies

Global Next-generation Sequencing Services Market, by Application

Diagnostics

Drug Discovery

Biomarker Discovery

Agriculture & Animal Research

Other Applications

Global Next-generation Sequencing Services Market, by End User

Hospitals & Clinics

Pharmaceutical & Biotechnology Companies

Academics & Research Institutes

Other End Users

Global Next-generation Sequencing Services Market, by Geography

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Spain

Rest of Europe (RoE)

Asia-Pacific (APAC)

Japan

China

India

Rest of APAC (RoAPAC)

Latin America

Middle East & Africa

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