

# **Genomics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2017-2027 Segmented By Products & Services (Systems & Software, Consumables, Service), By Technology (Sequencing, PCR, Nucleic Acid Extraction and Purification, Microarray, Others), By Application (Drug Discovery & Development, Diagnostics, Agriculture & Animal Research, Others), By End User (Hospitals & Clinics, Academic & Research Institutions, Biotechnology & Pharmaceutical Companies, Others), By Company, and By Region**

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## **Abstracts**

The global genomics market is anticipated to observe an impressive growth during the forecast period, 2023-2027. The major factors include growing specialized medicines and wide application of genomics in numerous areas. Genomics is the branch of science that concerned with the structure, function, evolution, and mapping of genomes. Various steps are taken such as sampling, sequencing, data analysis and interpretation procedures to decode, assemble, and analyze genomes. Nowadays, people are diagnosed with genetic as well as chronic diseases due to which demand for personalized medicine is surging, which is bolstering the growth of the market. The other factors supporting the market's growth are, advancement in diagnostic techniques, increasing investments by governments, surge in cancer incidents and rise in R&D initiatives.

Increasing Demand of Specialized/Personalized Medicine

Growing importance of specialized medicines is one of the primary factors, supporting the growth of genomics market. The ability to advance health care facilities by providing unique clinical, genetic, genomic, and environmental information is increasing the importance of genomics. Surging demand of Personalized medicines is due to their efficiency to treat unique, yet complex diseases. They help medical researchers to identify the exact requirement of patient and then treat them accordingly. Based on the 2020 Scope and Significance of Progress report, personalized medicines accounted for around 39 percent of the total FDA-approved new drugs in the year. Doctors, researchers, and pharmaceutical firms are using precision medicine for developing new drug and disease therapies, and unique clinical testing. Personalized medicine uses all genes in human genome for identification, prevention, and treatment of any complex disease.

#### Growing Application of Genomics in Various Sectors.

The use of genomics concepts in the field of synthetic biology, healthcare, study gene sequences of plants and organisms, and bioengineering sectors are some of the applications, which is anticipating the growth of the market. For instance, agricultural genomics is a field that is contributing to advances in crop development such as it can lessen the trials and failures involved in scientific research to a certain extent, which could enhance the quality and quantity of crop yields in agriculture. In December 2020, Calyxt, Inc. announced signing a research collaboration with NRGene Ltd. that comprises the use of the cloud-based genomic platform of NRGene to fast-track hemp trait discovery.

#### Technological Advancements

Rapid advancements and innovations in the genomics sector are bolstering the growth of the market. The advent of cheaper nucleic acid sequencing is modifying DNA and RNA on demand. Sensing the increasing demand several companies are offering sequencing services for nutrition, ancestry, and genetic diseases. Rapid advances in microscopy are also in process. For instance, in 2019, Thermo Fisher Scientific, Inc. (US) introduced the OncoPrint Precision Assay, an innovative pan-cancer panel, for its Genexus platform to advance precision medicine in clinical settings. Other factors, such as massive research and development (R&D) activities in the bioinformatics sector and the increasing demand for next-generation sequencing services, are anticipating the growth of the market.

## Market Segmentation

The global genomics market is segmented into products & services, technology, application, end user, and company. Based on products & services, the market is divided into systems & software, consumables, and service. Based on technology, the market is divided into sequencing, PCR, nucleic acid extraction and purification, microarray, and others. Based on application, the market is segmented into drug discovery & development, diagnostics, agriculture & animal research, and others. Based on end user, the market is divided into hospitals & clinics, academic & research institutions, biotechnology & pharmaceutical companies, and others. In terms of country, the United States is expected to be a lucrative market in the forecast period due to rising importance of personalized medicines and wide application of genomics in the country.

## Market Players

Illumina, Inc., Thermo Fischer Scientific, Inc., QIAGEN N.V., Agilent Technologies, Inc., F. Hoffmann-La Roche AG, Bio-Rad Laboratories, Inc., Eurofins Scientific SE, Oxford Nanopore Technologies Limited, Pacific Biosciences of California, Inc., Danaher Corporation, GE Healthcare, Myriad Genetics, Inc., 23andMe, Inc., Eppendorf AG, and Quest Diagnostics Inc. are some of the leading companies operating in the market.

## Report Scope:

In this report, global genomics market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

### Genomics Market, By Products & Services:

Systems & Software

Consumables

Service

### Genomics Market, By Technology:

Sequencing

PCR

Nucleic Acid Extraction and Purification

Microarray

Others

Genomics Market, By Application:

Drug Discovery & Development

Diagnostics

Agriculture & Animal Research

Others

Genomics Market, By Application:

Hospitals & Clinics

Academic & Research Institutions

Biotechnology & Pharmaceutical Companies

Others

Genomics Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

Australia

South Korea

Europe & CIS

Germany

France

United Kingdom

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Genomics Market

## Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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