

Genotyping Assay Market by Technology (PCR, Sequencing, Microarray, Electrophoresis, MALDI-TOF), Application (Pharmacogenomics, Diagnostic Research, Animal Genetics, Agricultural Biotechnology), and Product - Global Forecast to 2023

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Abstracts

“The global genotyping market is projected to grow at a CAGR of 22.0%.”

The genotyping market is expected to reach USD 31.9 billion by 2023 from an estimated USD 11.8 billion in 2018, at a CAGR of 22.0%. Technological advancements, the decreasing prices of DNA sequencing, and the increasing incidence of genetic diseases are expected to drive the growth of the global genotyping market. However, the high cost of equipment is expected to restrain market growth to a certain extent during the forecast period.

“Pharmacogenomics application segment to witness the highest growth during the forecast period.”

On the basis of application, the genotyping market is segmented into pharmacogenomics, diagnostic & personalized medicine, agricultural biotechnology, animal genetics, and other applications. The pharmacogenomics segment is expected to register the highest CAGR during the forecast period. The increased use of genotyping to predict the efficiency of drugs during drug development and the growing need to understand the adverse effects of drugs are the major factors driving the growth of this market segment.

“Pharmaceutical and biopharmaceutical companies end-user segment is expected to grow at the highest CAGR during the forecast period.”

On the basis of end user, the genotyping market is segmented into pharmaceutical & biopharmaceutical companies, diagnostic & research institutes, academic institutes, and other end users. The pharmaceutical & biopharmaceutical companies segment is expected to witness the highest CAGR owing to the growing importance of biomarkers in genotyping used among these end users, given their applications in drug development which, in turn, will support the growth of this segment.

“APAC is projected to witness the highest growth during the forecast period.”

North America is expected to account for the largest share of the global genotyping market in 2018. On the other hand, the APAC region is expected to witness the highest CAGR during the forecast period, owing to the increasing incidence of chronic diseases and growing awareness on the use of genotyping tests to control the inheritance of genetic diseases & the spread of infectious and microbial diseases in APAC countries. The increasing outsourcing of clinical research and trials by pharmaceutical and biopharmaceutical companies to organizations in the APAC has driven the demand for genotyping products for drug profile assessment, drug efficacy, safety assessment, dosing determination, and drug response evaluation.

A breakdown of the primary participants referred to for this report is provided below:

By Company Type: Tier 1–46%, Tier 2–33%, and Tier 3–21%

By Designation: C-level–43%, Director Level–35%, and Others–22%

By Region: North America–34%, Europe–26%, Asia Pacific–19%, Latin America–11%, and the Middle East & Africa–10%

The prominent players in the global genotyping market are Thermo Fisher Scientific (US), Illumina (US), QIAGEN (Netherlands), Agilent Technologies (US), Danaher Corporation (US), Roche Diagnostics (Switzerland), GE Healthcare (US), Fluidigm Corporation (US), PerkinElmer (US), Eurofins Scientific (Luxembourg), Bio-Rad Laboratories (US), Pacific Biosciences of California (US), GENEWIZ (US), and Integrated DNA Technologies (US).

Research Coverage:

The report analyzes the market for various genotyping products and their adoption pattern. It aims at estimating the market size and future growth potential of the global genotyping market and different segments such as products, technology, applications, end users, and regions. The report also includes an in-depth competitive analysis of the key players in this market along with their company profiles, product offerings, and recent developments.

Reasons to Buy the Report

The report will enrich established firms as well as new entrants/smaller firms to gauge the pulse of the market, which, in turn, would help them garner a greater share. Firms purchasing the report could use one or any combination of the below-mentioned five strategies for strengthening their market presence.

This report provides insights on the following pointers:

Market Penetration: Comprehensive information on the product portfolios offered by the top players in the global genotyping market

Product Development/Innovation: Detailed insights on the upcoming trends, R&D activities, and product launches in the global genotyping market

Market Development: Comprehensive information on the lucrative emerging regions by product, technology, application, end user, and region

Market Diversification: Exhaustive information about new products, growing geographies, and recent developments in the global genotyping market

Competitive Assessment: In-depth assessment of market shares, growth strategies, revenue analysis, and products of leading players in the global genotyping market

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About

The global genotyping market is expected to reach \$17.0 Billion in 2020 from \$ 6.2 Billion in 2015, at a healthy CAGR of 22.3% from 2015 to 2020.

Growth in this market is attributed to the increasing incidence of genetic diseases & increasing awareness about personalized medicine, technological advancements, decreasing prices of DNA sequencing, growing importance of SNP genotyping in drug development, and the increasing demand for genetic analysis in animal & plant livestock. However, the lack of appropriate reimbursement policies and a lack of technical know-how are curbing market growth to a certain extent.

Key players in Genotyping Market are

Affymetrix, Inc. (U.S.)

Illumina, Inc. (U.S.)

Thermo Fisher Scientific, Inc. (U.S.)

Agilent Technologies (U.S.)

Beckman Coulter (U.S.)

Sequenom, Inc. (U.S.)

The global genotyping market is segmented by products & services, technology, applications, end users, and region. This report also discusses the key market drivers, restraints, opportunities, and challenges for this market and submarkets. The market, by products & services, is segmented into instruments (sequencers & amplifiers, and analyzers), reagents & kits, bioinformatics software and genotyping services. The reagents & kits market segment accounted for the largest share of 49% of the global genotyping market in 2014. The accessibility of a wide range of reagents and increasing need for genotyping for assessing drug efficacy and safety, to personalize the treatment

for chronic diseases, to develop good breeds of animals & plants are some of the factors that are expected to drive the genotyping reagents market.

North America, a major market for global genotyping, occupied a major share in this market, closely followed by Europe. However, emerging countries in the Asia-Pacific region and the Rest of the World (Latin America) are expected to record strong growth during the forecast period. The Asia-Pacific market is expected to grow at a CAGR of 25.4% during the forecast period of 2015-2020. Countries like India, China, and Brazil will majorly drive market growth owing to the introduction of healthcare reforms, rising investments by public and private players to provide improved healthcare services in these countries, and the unmet medical needs of patients suffering from diseases such as cancer, diabetes and cardiovascular disease.

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