

Plant Genomics - Global Market Outlook (2018-2027)

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Abstracts

According to Statistics MRC, the Global Plant Genomics Market is accounted for \$6.18 billion in 2018 and is expected to reach \$14.49 billion by 2027 growing at a CAGR of 9.9% during the forecast period. Growing demand for improved crop varieties is driving market growth. However, the huge cost of infrastructure and less usage of automated instruments due to more cost are hampering the market.

Plant genomics aims to sequence, characterize, and study the genetic compositions, structures, organizations, functions, and interactions/networks of an entire plant genome. Its development and advances are tightly interconnected with proteomics, metabolomics, metagenomics, transgenics, genomic selection, bioinformatics, epigenomics, phenomics, system biology, modern instrumentation, and robotics sciences.

Based on the type, molecular engineering segment is likely to have huge growth during the forecast period. Molecular engineering is an emerging field of study concerned with the design and testing of molecular properties, behaviour and interactions in order to assemble better materials, systems, and processes for specific functions. Marker-assisted selection is the most widely adopted process in molecular breeding by key breeding entities, majorly for crop applications.

By geography, the Asia Pacific region is estimated to have a lucrative growth due to the key players in different nations of the Asia Pacific area are concentrating on coordinating their investments toward biotechnology research on food crops and crops of high business incentive to take into account the increasing food requirements and to reduce poverty, especially among asset poor cultivating families. With the reception of modern plant breeding techniques, new crop cultivars can be created to guarantee high crop productivity. Additionally, key techniques, such as the adoption advanced plant technology by the main players in the Asia Pacific region guarantee food security

globally among end-users.

Some of the key players in global plant genomics market include Illumina, Inc., Qiagen, Agilent Technologies, Eurofins Scientific, Neogen Corporation, KeyGene, Nrgene, Traitgenetics GmbH, Genotypic Technology Pvt. Ltd., Novogene Corporation, BGI Genomics, Oxford Nanopore Technologies, Floragenex, Genewiz, and LC Sciences.

Types Covered:

Genetic Engineering

Molecular Engineering

Genome Editing

Other Types

Objectives Covered:

Genotyping

Deoxyribo Nucleic Acid (DNA)/Ribo Nucleic Acid
Sequencing

Gene Expression Profiling

Marker-Assisted Selection (MAS)

Genetically Modified Organism (GMO)-Trait Purity Testing

Deoxyribo Nucleic Acid (DNA) Extraction & Purification

Other Objectives

Traits Covered:

Disease Resistance

Yield Improvement

Herbicide Tolerance

Other Traits

Application Covered:

Oilseeds & Pulses

Cereals & Grains

Fruits & Vegetables

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub-segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic analysis: Drivers and Constraints, Product/Technology Analysis, Porter's five forces analysis, SWOT analysis etc.

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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