

Plant Genomics Market by Objective (Extraction, Sequencing, Genotyping, Gene Expression, MAS, and GMO-trait Purity Testing), Type (Molecular Engineering and Genetic Engineering), Trait, Application, and Region - Global Forecast 2025

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Abstracts

The plant genomics market is projected to grow at a CAGR of 8.3% from 2019 to 2025.

The global plant genomics market is estimated to be valued at USD 7.3 billion in 2019 and is projected to reach USD 11.7 billion by 2025, recording a CAGR of 8.3%. Factors such as the rise in demand for improved crop varieties, the cost-effectiveness of genomics, and the rise in plant genome funding are factors that are projected to drive the growth of this market.

The herbicide tolerance segment, by trait, is projected to be the largest segment in the plant genomics market during the forecast period.

Herbicide-tolerant crops have unique traits, which makes them resistant to the effects of herbicides, which, in turn, makes the application of herbicides easier. In crop management, as weeds are the main cause for economic losses, herbicides are extensively applied to control the same; however, excessive use of herbicide during the agricultural practices is detrimental. The usage of herbicide-tolerant seeds offers farmers a more flexible and simple weed control system.

Marker-assisted selection segment to witness the fastest growth during the forecast period.

By objective, the plant genomics market is segmented into DNA extraction &

purification, DNA/RNA sequencing, genotyping, gene expression profiling, marker-assisted selection, GMO-trait purity testing, and other objectives segments. Genetic linkage maps provide a framework for the detection of marker-trait associations, and thus, choose the appropriate markers to use in marker-assisted breeding in plants.

The North American plant genomics market is projected to account for the largest market share due to the rapid adoption of advanced technologies for better yielding of crops in the region.

North America is the largest market for plant genomics services across the globe. This is attributed to the high number of key technology providers, streamlined governments, and effective research processes. The cultivation of industrial crops is gaining pace in North American countries, wherein more land area is being cultivated with high-value crops. End-use farmers in these countries are adopting readily available advanced agricultural practices to obtain optimum yield without compromising on environmental factors.

Break-up of Primaries

By Company Type: Tier 1 - 60%, Tier 2 - 30%, and Tier 3 - 10%

By Designation: C-level - 80%, D-level - 10%, and Others* - 10%

By Region: Asia Pacific - 50%, Europe - 20%, North America - 15%, Rest of the World (RoW)** - 15%

*Others include sales managers, marketing managers, and product managers.

**RoW includes South Africa, Saudi Arabia, Israel, and others in RoW.

Leading players profiled in this report:

Eurofins Scientific (Luxembourg)

Illumina, Inc. (US)

NRGene (Israel)

Neogen Corporation (US)

Qiagen (Germany)

Agilent Technologies (US)

KeyGene (Netherlands)

LC Sciences (US)

Traitgenetics GmbH (Germany)

Novogene Corporation (China)

Oxford Nanopore Technologies (UK)

Genewiz (US)

BGI Genomics (China)

Genotypic Technologies (India)

Florgenex (US)

Research Coverage

This report segments the plant genomics market based on type, objective, trait, application, and region. In terms of insights, this research report focuses on various levels of analyses—competitive landscape, end-use analysis, and company profiles—which together comprise and discuss the basic views on the emerging & high-growth segments of the plant genomic market, the high-growth regions, countries, government initiatives, market disruption, drivers, restraints, opportunities, and challenges.

Reasons to buy this report

To get a comprehensive overview of the plant genomics market

To gain wide-ranging information about the top players in this industry, their

product portfolios, and the key strategies adopted by them

To gain insights about the major countries/regions in which the plant genomics market is flourishing

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
- 1.4 PERIODIZATION CONSIDERED
- 1.5 CURRENCY CONSIDERED
- 1.6 STAKEHOLDERS
- 1.7 ASSOCIATIONS & INDUSTRY BODIES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.2 BREAKDOWN OF PRIMARY INTERVIEWS
- 2.2 MARKET SIZE ESTIMATION
- 2.3 DATA TRIANGULATION
- 2.4 ASSUMPTIONS FOR THE STUDY
- 2.5 LIMITATIONS OF THE STUDY

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 OPPORTUNITIES IN THE PLANT GENOMICS MARKET
- 4.2 NORTH AMERICA: PLANT GENOMICS MARKET, BY APPLICATION & COUNTRY
- 4.3 PLANT GENOMICS MARKET, BY OBJECTIVE, 2019 VS. 2025 (USD BILLION)
- 4.4 PLANT GENOMICS MARKET, BY TRAIT, 2019 VS. 2025 (USD BILLION)
- 4.5 PLANT GENOMICS MARKET, BY KEY COUNTRY

5 MARKET OVERVIEW

- 5.1 OVERVIEW
- 5.2 PLANT GENOMICS: MARKET DYNAMICS
- 5.3 DRIVERS
 - 5.3.1 TECHNOLOGICAL ADVANCEMENTS ENSURING STRONG MARKET GROWTH

5.3.2 RISE IN DEMAND FOR IMPROVED CROP VARIETIES

5.3.3 COST-EFFECTIVENESS OF GENOMICS

5.3.4 RISE IN PLANT GENOME FUNDING FUELING THE ADOPTION OF
INNOVATIVE TECHNOLOGIES

5.4 RESTRAINTS

5.4.1 LESS USAGE OF AUTOMATED INSTRUMENTS DUE TO HIGH COST

5.4.2 HIGH COST OF INFRASTRUCTURE

5.5 OPPORTUNITIES

5.5.1 GROWTH IN EMERGING ECONOMIES PROVIDING HUGE SCOPE FOR
MARKET DEVELOPMENT

5.5.2 RISING OPPORTUNITIES FOR USING NOVEL DNA SEQUENCING
TECHNOLOGIES

5.6 CHALLENGES

5.6.1 LACK OF AWARENESS IN HANDLING MODERN PLANT GENOMIC
TECHNOLOGIES, IN DEVELOPING ECONOMIES

5.6.2 HAZARDOUS EFFECTS OF GMO'S LIMITING RESEARCH PRACTICES IN
PLANT GENOMICS

6 REGULATIONS

6.1 INTRODUCTION

6.1.1 NORTH AMERICA

6.1.1.1 US

6.1.1.2 Canada

6.1.1.3 Mexico

6.1.2 EUROPE

6.1.2.1 Germany

6.1.3 ASIA PACIFIC

6.1.3.1 China

6.1.3.2 India

6.1.3.3 Australia

6.1.3.4 Japan

6.1.4 SOUTH AFRICA

7 PLANT GENOMICS MARKET, BY OBJECTIVE

7.1 INTRODUCTION

7.1.1 DNA/RNA SEQUENCING

7.1.1.1 The DNA/RNA sequencing segment accounted for the largest share in the

plant genomics market

7.1.2 GENOTYPING

7.1.2.1 The genotyping segment accounted for the largest share in North America due to its high accuracy and efficiency in the plant genomics market

7.1.3 MARKER-ASSISTED SELECTION (MAS)

7.1.3.1 The use of MAS in plant genomics is increasing due to the involvement of marker allele, which identifies disease resistance traits among plants

7.1.4 GENE EXPRESSION PROFILING

7.1.4.1 Next-generation technology provides a better approach toward gene expression profiling, as it helps in identifying various biological findings

7.1.5 GMO-TRAIT PURITY TESTING

7.1.5.1 Advancements in GMO purity testing technology have encouraged the development of enhanced purification kits for plant genomes in various developing countries

7.1.6 DNA EXTRACTION & PURIFICATION

7.1.6.1 Increase in the production of various types of DNA purification kits is projected to drive the plant genomics market in developing countries of Asia Pacific

7.1.7 OTHERS

8 PLANT GENOMICS MARKET, BY TYPE

8.1 INTRODUCTION

8.1.1 MOLECULAR ENGINEERING

8.1.1.1 Unregulated environment for molecular engineering techniques positively impacting its adoption rate, globally

8.1.2 GENETIC ENGINEERING

8.1.2.1 Rise in the use of innovative techniques fueling the adoption of genetic engineering methods in developed regions

8.1.3 OTHERS

9 PLANT GENOMICS MARKET, BY TRAIT

9.1 INTRODUCTION

9.1.1 HERBICIDE TOLERANCE

9.1.1.1 Herbicide-tolerant traits dominated the plant genomics market

9.1.2 DISEASE RESISTANCE

9.1.2.1 Increase in commercial demand for high-quality field crops has heightened the adoption of molecular techniques

9.1.3 YIELD IMPROVEMENT

9.1.3.1 Increase in concerns regarding food security has triggered the demand for high-yielding crop lines

9.1.4 OTHERS

10 PLANT GENOMICS MARKET, BY APPLICATION

10.1 INTRODUCTION

10.1.1 CEREALS & GRAINS

10.1.1.1 Growth in importance of corn as an industrial crop in developed economies is the major factor driving the cereals & grains segment

10.1.2 OILSEEDS & PULSES

10.1.2.1 Increase in usage of various molecular engineering techniques in oilseeds is fueling the growth of the market in developing economies

10.1.3 FRUITS & VEGETABLES

10.1.3.1 Adoption of molecular engineering techniques would be rising in fruit & vegetable cultivation due to the decreasing costs of these techniques

10.1.4 OTHER CROPS

11 BY REGION

11.1 INTRODUCTION

11.2 NORTH AMERICA

11.2.1 US

11.2.1.1 Increasing R&D investments by key players to drive the growth of the plant genomics market in the country

11.2.2 CANADA

11.2.2.1 increasing government funding for advanced plant genomic TECHNIQUES to drive the growth of the plant genomics market in the country

11.2.3 MEXICO

11.2.3.1 untapped opportunities in advanced biotechnological plant genomic technologies

11.3 EUROPE

11.3.1 GERMANY

11.3.1.1 increasing investments by domestic seed manufacturers for plant genomic techniques driving market growth

11.3.2 FRANCE

11.3.2.1 increasing support by the government sector for plant genomic activities in france leading to the development of better-quality crop varieties

11.3.3 UK

11.3.3.1 seed companies in the UK are adopting advanced plant genomic techniques, such as MAS and genotyping, for better crop efficiency

11.3.4 THE NETHERLANDS

11.3.4.1 rise in the number of agreements between the key players for providing various advanced plant genomic techniques expected to fuel the market in the country

11.3.5 SPAIN

11.3.5.1 huge potential for biotechnological plant genomic TECHNIQUES expected to fuel the market in the country

11.3.6 ITALY

11.3.6.1 rise in the production of cereals & grains due to the use of various plant genomic TECHNIQUES projected to fuel the plant genomics market in the country

11.3.7 REST OF EUROPE

11.4 ASIA PACIFIC

11.4.1 CHINA

11.4.1.1 the RISING GOVERNMENT SUPPORT AND FUNDING drive THE CHINESE PLANT GENOMICS MARKET

11.4.2 JAPAN

11.4.2.1 increasing collaborative activities in plant genomics enhancing the growth of the market in Japan

11.4.3 INDIA

11.4.3.1 indian plant genomics market projected to witness the fastest growth in the coming years

11.4.4 SOUTH KOREA

11.4.4.1 new product developments in plant genomics driving the market in the country

11.4.5 AUSTRALIA & NEW ZEALAND

11.4.5.1 australian plant genomic companies adopting advanced technological methods for plant conservation

11.4.6 REST OF ASIA PACIFIC

11.5 SOUTH AMERICA

11.5.1 BRAZIL

11.5.1.1 brazil is witnessing high yield in agricultural production and is the second-largest producer of biotech crops

11.5.2 ARGENTINA

11.5.2.1 argentina to be one of the largest exporters of genetically engineered (GE) commodities

11.5.3 REST OF SOUTH AMERICA

11.6 REST OF THE WORLD

11.6.1 SOUTH AFRICA

11.6.1.1 favorable regulations in the country to drive the growth of the plant genomic market

11.6.2 SAUDI ARABIA

11.6.2.1 rich variety of diverse plant genetic resources drives the growth of the plant genomics market in the country

11.6.3 ISRAEL

11.6.3.1 untapped opportunities in biotechnological plant genomic breeding technologies

11.6.4 OTHERS IN ROW

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

12.2 COMPETITIVE LEADERSHIP MAPPING

12.2.1 VISIONARY LEADERS

12.2.2 DYNAMIC DIFFERENTIATORS

12.2.3 EMERGING COMPANIES

12.2.4 INNOVATORS

12.3 PLANT GENOMICS MARKET RANKING, BY KEY PLAYER, 2018

12.4 COMPETITIVE SCENARIO

12.4.1 ACQUISITIONS & MERGERS

12.4.2 EXPANSIONS & INVESTMENTS

12.4.3 NEW PRODUCT LAUNCHES

12.4.4 AGREEMENTS, COLLABORATIONS, PARTNERSHIPS, AND JOINT VENTURES

13 COMPANY PROFILES

(Business overview, Products offered, Recent Developments, SWOT analysis, MNM view)*

13.1 EUROFINS SCIENTIFIC

13.2 ILLUMINA, INC.

13.3 AGILENT TECHNOLOGIES

13.4 QIAGEN

13.5 NRGENE

13.6 NEOGEN CORPORATION

13.7 KEYGENE

13.8 LC SCIENCES

13.9 TRAITGENETICS GMBH

- 13.10 NOVOGENE CORPORATION
- 13.11 OXFORD NANOPORE TECHNOLOGIES
- 13.12 GENEWIZ
- 13.13 BGI GENOMICS
- 13.14 FLORAGENEX
- 13.15 GENOTYPIC TECHNOLOGY PVT. LTD.

*Details on Business overview, Products offered, Recent Developments, SWOT analysis, MNM view might not be captured in case of unlisted companies.

14 APPENDIX

- 14.1 DISCUSSION GUIDE
- 14.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 14.3 AVAILABLE CUSTOMIZATIONS
- 14.4 RELATED REPORTS

List Of Tables

LIST OF TABLES

TABLE 1 USD EXCHANGE RATES CONSIDERED, 2014–2018

TABLE 2 PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2019–2025 (USD MILLION)

TABLE 3 DNA/RNA SEQUENCING PLANT GENOMICS MARKET SIZE, BY REGION, 2019–2025 (USD MILLION)

TABLE 4 PLANT GENOTYPING MARKET SIZE, BY REGION, 2019–2025 (USD MILLION)

TABLE 5 PLANT MARKER-ASSISTED SELECTION MARKET SIZE, BY REGION, 2019–2025 (USD MILLION)

TABLE 6 PLANT GENE EXPRESSION PROFILING MARKET SIZE, BY REGION, 2019–2025 (USD MILLION)

TABLE 7 PLANT GMO/TRAIT PURITY MARKET SIZE, BY REGION, 2019–2025 (USD MILLION)

TABLE 8 PLANT DNA EXTRACTION & PURIFICATION MARKET SIZE, BY REGION, 2019–2025 (USD MILLION)

TABLE 9 OTHER OBJECTIVES MARKET SIZE, BY REGION, 2019–2025 (USD MILLION)

TABLE 10 PLANT GENOMICS MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 11 MOLECULAR ENGINEERING: PLANT GENOMICS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 12 GENETIC ENGINEERING: PLANT GENOMICS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 13 OTHERS: PLANT GENOMICS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 14 PLANT GENOMICS MARKET SIZE, BY TRAIT, 2017–2025 (USD MILLION)

TABLE 15 PLANT HERBICIDE-TOLERANT GENOMICS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 16 PLANT DISEASE-RESISTANT GENOMICS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 17 PLANT YIELD IMPROVEMENT GENOMICS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 18 OTHER TRAITS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 19 PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 20 PLANT GENOMICS MARKET SIZE IN CEREALS & GRAINS, BY REGION,

2017–2025 (USD MILLION)

TABLE 21 PLANT GENOMICS MARKET SIZE IN OILSEEDS & PULSES, BY REGION, 2017–2025 (USD MILLION)

TABLE 22 PLANT GENOMICS MARKET SIZE IN FRUITS & VEGETABLES, BY REGION, 2017–2025 (USD MILLION)

TABLE 23 PLANT GENOMICS MARKET SIZE IN OTHER CROPS, BY REGION, 2017–2025 (USD MILLION)

TABLE 24 PLANT GENOMICS MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 25 NORTH AMERICA: PLANT GENOMICS MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 26 NORTH AMERICA: PLANT GENOMICS MARKET SIZE, BY TRAIT, 2017–2025 (USD MILLION)

TABLE 27 NORTH AMERICA: PLANT GENOMICS MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 28 NORTH AMERICA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 29 NORTH AMERICA: PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 30 US: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 31 CANADA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 32 MEXICO: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 33 EUROPE: PLANT GENOMICS MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 34 EUROPE: PLANT GENOMICS MARKET SIZE, BY TRAIT, 2017–2025 (USD MILLION)

TABLE 35 EUROPE: PLANT GENOMICS MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 36 EUROPE: PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 37 EUROPE: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 38 GERMANY: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 39 FRANCE: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 40 UK: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 41 NETHERLANDS: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 42 SPAIN: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 43 ITALY: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 44 REST OF EUROPE: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 45 ASIA PACIFIC: PLANT GENOMICS MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 46 ASIA PACIFIC: PLANT GENOMICS MARKET SIZE, BY TRAIT, 2017–2025 (USD MILLION)

TABLE 47 ASIA PACIFIC: PLANT GENOMICS MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 48 ASIA PACIFIC: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 49 ASIA PACIFIC: PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 50 CHINA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 51 JAPAN: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 52 INDIA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 53 SOUTH KOREA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 54 AUSTRALIA & NEW ZEALAND: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 55 REST OF ASIA PACIFIC: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 56 SOUTH AMERICA: PLANT GENOMICS MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 57 SOUTH AMERICA: PLANT GENOMICS MARKET SIZE, BY TRAIT, 2017–2025 (USD MILLION)

TABLE 58 SOUTH AMERICA: PLANT GENOMICS MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 59 SOUTH AMERICA: PLANT GENOMICS MARKET SIZE, BY APPLICATION,

2017–2025 (USD MILLION)

TABLE 60 SOUTH AMERICA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 61 BRAZIL: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 62 ARGENTINA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 63 REST OF SOUTH AMERICA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 64 ROW: PLANT GENOMICS MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 65 ROW: PLANT GENOMICS MARKET SIZE, BY TRAIT, 2017–2025 (USD MILLION)

TABLE 66 ROW: PLANT GENOMICS MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 67 ROW: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 68 ROW: PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 69 SOUTH AFRICA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 70 SAUDI ARABIA: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 71 ISRAEL: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 72 OTHERS IN ROW: PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2017–2025 (USD MILLION)

TABLE 73 ACQUISITIONS & MERGERS, 2015–2019

TABLE 74 EXPANSIONS & INVESTMENTS, 2015–2019

TABLE 75 NEW PRODUCT LAUNCHES, 2015–2019

TABLE 76 AGREEMENTS, COLLABORATIONS, PARTNERSHIPS, AND JOINT VENTURES, 2015–2019

List Of Figures

LIST OF FIGURES

FIGURE 1 PLANT GENOMICS MARKET SEGMENTATION

FIGURE 2 REGIONAL SEGMENTATION

FIGURE 3 PLANT GENOMICS MARKET: RESEARCH DESIGN

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 7 DATA TRIANGULATION METHODOLOGY

FIGURE 8 PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2019 VS. 2025 (USD MILLION)

FIGURE 9 PLANT GENOMICS MARKET SIZE, BY TRAIT, 2019 VS. 2025 (USD MILLION)

FIGURE 10 PLANT GENOMICS MARKET SIZE, BY TYPE, 2018 (USD MILLION)

FIGURE 11 PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2019 VS. 2025 (USD MILLION)

FIGURE 12 PLANT GENOMICS MARKET: REGIONAL SNAPSHOT

FIGURE 13 THE RISE IN PLANT GENOME FUNDING FOR FUELING THE ADOPTION OF INNOVATIVE TECHNOLOGIES SUPPORTS THE GROWTH OF THE PLANT GENOMICS MARKET

FIGURE 14 NORTH AMERICA: THE US WAS THE LARGEST MARKET FOR PLANT GENOMICS IN 2018

FIGURE 15 GENOTYPING SEGMENT ESTIMATED TO BE THE DOMINANT SEGMENT IN THE PLANT GENOMICS MARKET IN 2019

FIGURE 16 HERBICIDE TOLERANCE SEGMENT ESTIMATED TO BE THE DOMINANT SEGMENT IN THE PLANT GENOMICS MARKET IN 2019

FIGURE 17 INDIA IS PROJECTED TO WITNESS THE HIGHEST GROWTH DURING THE FORECAST PERIOD

FIGURE 18 PLANT GENOMICS: MARKET DYNAMICS

FIGURE 19 SEQUENCING COST PER GENOME, 2011-2019

FIGURE 20 PLANT GENOMICS MARKET SIZE, BY OBJECTIVE, 2019 VS. 2025 (USD MILLION)

FIGURE 21 PLANT GENOMICS MARKET SIZE, BY TYPE, 2019 VS. 2025 (USD MILLION)

FIGURE 22 PLANT GENOMICS MARKET SIZE, BY TRAIT, 2019 VS. 2025 (USD MILLION)

FIGURE 23 PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2019 VS. 2025
(USD MILLION)

FIGURE 24 NORTH AMERICA PLANT GENOMICS SNAPSHOT

FIGURE 25 ASIA PACIFIC: PLANT GENOMICS MARKET SNAPSHOT

FIGURE 26 PLANT GENOMICS MARKET: COMPETITIVE LEADERSHIP MAPPING,
2018

FIGURE 27 KEY DEVELOPMENTS OF THE LEADING PLAYERS IN THE PLANT
GENOMICS MARKET, 2015–2019

FIGURE 28 PLANT GENOMICS MARKET RANKING, 2018

FIGURE 29 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS & JOINT
VENTURES IS THE KEY STRATEGY ADOPTED BY LEADING PLAYERS

FIGURE 30 ANNUAL DEVELOPMENTS IN THE PLANT GENOMICS MARKET,
2015–2019

FIGURE 31 EUROFINS SCIENTIFIC: COMPANY SNAPSHOT

FIGURE 32 EUROFINS SCIENTIFIC: SWOT ANALYSIS

FIGURE 33 ILLUMINA, INC.: COMPANY SNAPSHOT

FIGURE 34 AGILENT TECHNOLOGIES: COMPANY SNAPSHOT

FIGURE 35 QIAGEN: COMPANY SNAPSHOT

FIGURE 36 NRGENE: COMPANY SNAPSHOT

FIGURE 37 NEOGEN CORPORATION: COMPANY SNAPSHOT

FIGURE 38 KEYGENE: COMPANY SNAPSHOT

FIGURE 39 LC SCIENCES: COMPANY SNAPSHOT

FIGURE 40 TRAITGENETICS GMBH: COMPANY SNAPSHOT

FIGURE 41 NOVOGENE CORPORATION: COMPANY SNAPSHOT

FIGURE 42 OXFORD NANOPORE TECHNOLOGIES: COMPANY SNAPSHOT

FIGURE 43 GENEWIZ: COMPANY SNAPSHOT

FIGURE 44 BGI GENOMICS: COMPANY SNAPSHOT

FIGURE 45 FLORAGENEX: COMPANY SNAPSHOT

FIGURE 46 GENOTYPIC TECHNOLOGY PVT. LTD.: COMPANY SNAPSHOT

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