

AgriGenomics Market by Application (Crops and Livestock), Sequencer Type (Sanger Sequencing, Illumina HiSeq Family, PacBio Sequencer, SOLiD Sequencer), Objectives, and Region (North America, Europe, APAC, South America, Row) - Forecast year 2026

<https://marketpublishers.com/r/AD9AAD0C9BCEN.html>

Date: June 2021

Pages: 273

Price: US\$ 4,950.00 (Single User License)

ID: AD9AAD0C9BCEN

Abstracts

The global agriGenomics market is estimated to be USD 3.3 billion in 2021 and is projected to reach USD 5.3 billion by 2026, at a CAGR of 9.7% from 2021 to 2026. The agriGenomics market is increasingly driven by technological advancements in systems & services of applied genomics, demonstrable increase in the efficiency and productivity of current agricultural practices, greater availability of reference genomes, and utilization of genotyping for genome-wide association studies, genomic prediction, and cultivation of gene-edited elite cultivars with desirable traits, such as high yield, stress tolerance and pest resistance along with high milk and meat yields, better health, and increased productivity in case of livestock. The large-scale genetic characterization in some of the commercially relevant crops has provided a framework that is applicable to other crops as well. With the mounting dual challenges of population growth and climate change, new strategies, including genetic advancements, must be available to producers to address concerns of yield optimization and food security.

“The market for livestock is projected to grow at the highest CAGR between 2021 and 2026.”

The livestock segment is projected to gain further growth traction during the forecast period owing to rapid adoption and commercialization of the novel genotyping platforms and related techniques such as marker-based selection (MAS) and marker-based

breeding (MAB) to identify complex inheritance traits. The global demand for animal-based food products is expected to increase by 70% by 2050. The implementation of advanced genetic technologies in livestock production will ensure minimal environmental impact with optimized animal health & fertility.

A shift from traditional animal breeding to genomic selection is estimated with the introduction of genome analysis tools. The presence of next-generation sequencers has enabled researchers to quickly and effectively determine the single nucleotide polymorphisms associated with commercially important phenotypic traits and estimate the breeding value (EBV) at an earlier stage of young animals.

“The Marker-assisted selection by objective is projected to grow at the highest CAGR between 2021 and 2026.”

The Marker-assisted selection is expected to grow at the highest rate during the forecast period as it is cheaper and faster than any conventional phenotypic assays, depending on the trait. Marker-assisted selection or marker-aided selection (MAS) is an indirect selection process where a trait of interest is selected based on a marker (morphological, biochemical, or DNA/RNA variation) linked to a trait of interest (e.g., productivity, disease resistance, abiotic stress tolerance, and quality), rather than on the trait itself. This process has been extensively researched and proposed for plant and animal breeding. It uses conventional breeding approaches and does not involve transgenic approaches. Marker-assisted breeding uses DNA markers associated with desirable traits to select a plant or animal for inclusion in a breeding program early in its development. This approach dramatically reduces the time required to identify varieties or breeds which express the desired trait in a breeding program. The marker may be the sequence of the gene that determines the trait, but in most cases, it is a DNA sequence which is located very close to the gene of interest and is therefore always inherited with the trait. Desirable traits include disease resistance, salt tolerance, and high yield. Hence, DNA markers have enormous potential to improve the efficiency and precision of conventional plant breeding via marker-assisted selection.

“Illumina HiSeq Family by sequencer type is projected to grow at the highest CAGR between 2021 and 2026.”

The Illumina Hi Seq Family held the largest share in 2020 and is also expected to grow at the highest rate as it is an efficient ultra-high-throughput sequencing system that supports the broadest range of applications and study sizes. Based on sequencer type, Illumina Hi Seq Family led the agrigenomics market, exhibiting a significant share of in

2020, registering a value of USD 1,393.2 million. It is also the most widely utilized next-generation sequencing (NGS) technology owing to its high throughput and exceptional operational performance. It also exhibits greater sensitivity to detect low-frequency gene variants. PacBio and solid sequencers are also expected to exhibit decent growth rates during the forecast period. Sequencing by ligation (SOLiD) utilizes DNA ligase, an enzyme widely used in biotechnology for its ability to ligate double-stranded DNA strands – owing to its two-base sequencing method, it is the most accurate and economical second-generation sequencing platform.

“The agrigenomics market in the Asia Pacific region is projected to grow at the highest CAGR during the forecast period. “

The Asia Pacific region is projected to be the fastest-growing in the global agrigenomics market at a CAGR of 10.6%. The growth in the region is projected due to the progress in research and development activities in India, China, and Japan. The availability of high-quality reference genome sequences for a majority of crops has strengthened the foundation of functional genomics in the region. Asia Pacific is the most populous continent with growing concerns for food and nutritional security. The region also produces important food crops such as rice, wheat, barley, chickpea, and pigeon pea. The agrigenomics solutions adopted in a full-fledged manner across the key markets of the region can emerge as a strong tool in the attainment of zero hunger as a sustainable development goal.

In the process of determining and verifying the market size for several segments and sub-segments gathered through secondary research, extensive primary interviews have been conducted with the key experts.

The breakup of the profiles of primary participants is as follows:

By Manufacturers: Tier 1 – 20%, Tier 2 – 50%, and Tier 3 – 30%

By Designation: CXOs – 31%, Managers – 24%, Executives – 45%

By Geography: Europe – 29%, Asia Pacific – 32%, North America – 24%, South America – 12%, and RoW – 3%

The key players in this market include Thermo Fisher Scientific, Inc. (US), Agilent Technologies, Inc. (US), Illumina, Inc. (US), Eurofins Scientific SE (Luxembourg), and

LGC Limited (UK). Some of these players—Thermo Fisher Scientific, Inc. (US) and Illumina, Inc. (US)—are both, technology and service providers who have streamlined their supply chain in providing agrigenomics services.

Research Coverage

The report segments the agrigenomics market based on type, species, application, and region. In terms of insights, this report has focused on various levels of analyses—competitive landscape, end-use analysis, and company profiles—which together comprise and discuss views on the emerging & high-growth segments of the agrigenomics , high-growth regions, countries, government initiatives, drivers, restraints, opportunities, and challenges.

Reasons to Buy the Report:

Illustrative segmentation, analysis, and forecast pertaining to the agrigenomics market based on type, species, application, and geography have been conducted to provide an overall view of the agrigenomics market

Major drivers, restraints, and opportunities for the agrigenomics market have been detailed in this report.

Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 MARKET DEFINITION

1.3 MARKET SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 MARKET SEGMENTATION: AGRIGENOMICS MARKET

1.3.2 INCLUSIONS AND EXCLUSIONS

1.3.3 GEOGRAPHIC SCOPE

1.4 PERIODIZATION CONSIDERED

1.5 CURRENCY CONSIDERED

TABLE 1 USD EXCHANGE RATES CONSIDERED FOR THE STUDY, 2017–2020

1.6 STAKEHOLDERS

1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 RESEARCH DESIGN: AGRIGENOMICS MARKET

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Key industry insights

2.1.2.3 Breakdown of primary interviews

FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

2.2 FACTOR ANALYSIS

2.2.1 INTRODUCTION

2.2.2 DEMAND-SIDE ANALYSIS

2.2.2.1 Finite land resources under agricultural cultivation

FIGURE 4 GLOBAL AREA UNDER AGRICULTURAL PRACTICE, 2015–2018 (MILLION HECTARES)

2.2.2.2 Strong need to reduce the dependence on agrochemicals

2.2.3 SUPPLY-SIDE ANALYSIS

2.2.3.1 Declining price rates for agrigenomics testing services

FIGURE 5 DECADAL DECLINE IN THE GENOMIC TESTING COSTS, 2004–2014

(USD THOUSAND)

2.2.3.2 Growing regulatory & environmental concerns

2.3 MARKET SIZE ESTIMATION

2.3.1 SUPPLY-SIDE AND DEMAND-SIDE ASPECTS OF MARKET SIZING

FIGURE 6 MARKET ESTIMATION APPROACHES BASED ON SUPPLY AND DEMAND ANALYSIS

2.3.2 BOTTOM-UP APPROACH

2.3.3 TOP-DOWN APPROACH

2.4 MARKET BREAKDOWN & DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION METHODOLOGY

2.5 RESEARCH ASSUMPTIONS & LIMITATIONS

2.5.1 ASSUMPTIONS

FIGURE 8 ASSUMPTIONS OF THE STUDY

2.6 RESEARCH LIMITATIONS & ASSOCIATED RISKS

2.7 MARKET SCENARIOS CONSIDERED FOR THE IMPACT OF COVID-19

2.7.1 SCENARIO-BASED MODELLING

3 EXECUTIVE SUMMARY

FIGURE 9 AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021 VS. 2026 (USD MILLION)

FIGURE 10 AGRIGENOMICS MARKET SHARE, BY APPLICATION, 2021 VS. 2026

FIGURE 11 AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2021 VS. 2026 (USD MILLION)

FIGURE 12 AGRIGENOMICS MARKET SHARE, BY REGION, 2020

4 PREMIUM INSIGHTS

4.1 BRIEF OVERVIEW OF THE AGRIGENOMICS MARKET

FIGURE 13 INCREASE IN APPLICATION OF GENOMICS IN AGRICULTURE TO IMPROVE THE PRODUCTIVITY AND SUSTAINABILITY IN CROP AND LIVESTOCK PRODUCTION TO DRIVE THE GROWTH OF THE AGRIGENOMICS MARKET

4.2 AGRIGENOMICS, BY SEQUENCER TYPE, 2021 VS. 2026 (USD MILLION)

FIGURE 14 ILLUMINA HI SEQ FAMILY TO ACCOUNT FOR THE LARGEST SHARE

4.3 AGRIGENOMICS MARKET, BY APPLICATION AND REGION

FIGURE 15 NORTH AMERICA DOMINATED THE MARKET ACROSS ALL APPLICATIONS

IN 2020

4.4 AGRIGENOMICS MARKET, BY OBJECTIVE

FIGURE 16 MARKER-ASSISTED SELECTION SEGMENT TO DOMINATE THE AGRIGENOMICS MARKET

4.5 NORTH AMERICA: AGRIGENOMICS MARKET, BY APPLICATION AND COUNTRY, 2020

FIGURE 17 CROPS SEGMENT ACCOUNTED FOR A LARGER SHARE, BY APPLICATION, IN 2020

4.6 COVID-19 IMPACT ON THE AGRIGENOMICS MARKET

FIGURE 18 GROWTH IN 2020 DECLINED IN THE POST-COVID-19 SCENARIO COMPARED TO THE PRE-COVID-19 SCENARIO

5 MARKET OVERVIEW

5.1 INTRODUCTION

FIGURE 19 DISTRIBUTION OF MARKET-ORIENTED GENOMIC APPLICATIONS IN AGRICULTURE, 1996-2019

5.2 MARKET DYNAMICS

FIGURE 20 AGRIGENOMICS MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Advanced tools and techniques of genome analysis are at the forefront of the agrigenomics growth momentum

TABLE 2 KEY TECHNOLOGIES FOR FUNCTIONAL GENOME ANALYSIS

5.2.1.2 Robust growth in grants & funding initiatives propelling agrigenomics growth

5.2.2 RESTRAINTS

5.2.2.1 Sub-optimized multidisciplinary research approaches and lackluster infrastructure support

5.2.2.2 Public perceptions and regulatory barriers for genome editing in agriculture

TABLE 3 REGULATORY STATUS FOR GENOME-EDITED CROPS IN KEY GEOGRAPHIES

5.2.3 OPPORTUNITIES

5.2.3.1 Agrigenomics for food & nutritional security and food safety & authenticity

5.2.3.2 Rising opportunities for DNA sequencing in crops and livestock

5.2.4 CHALLENGES

5.2.4.1 Technological constraints of applied genetics in agriculture

5.3 IMPACT OF COVID-19 ON MARKET DYNAMICS

5.3.1 COVID-19 NEGATIVELY IMPACTED THE SUPPLY CHAIN AND REVENUE STREAMS OF THE AGRIGENOMICS MARKET

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

FIGURE 21 VALUE CHAIN ANALYSIS

6.3 TECHNOLOGY ANALYSIS

6.3.1 POLYMERASE CHAIN REACTION (PCR)

6.3.2 QUANTITATIVE PCR

6.3.3 SEQSNP

6.3.4 AGRESEQ

6.3.5 MICROARRAY TECHNOLOGY

6.4 SUPPLY CHAIN ANALYSIS

FIGURE 22 SUPPLY CHAIN ANALYSIS: AGRIGENOMICS MARKET

6.5 ECOSYSTEM & MARKET MAP

FIGURE 23 MARKET ECOSYSTEM

FIGURE 24 MARKET MAP

6.5.1 UPSTREAM

6.5.2 DOWNSTREAM

6.5.2.1 Regulatory bodies

6.6 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 AGRIGENOMICS MARKET: PORTER'S FIVE FORCES ANALYSIS

6.6.1 THREAT OF NEW ENTRANTS

6.6.2 THREAT OF SUBSTITUTES

6.6.3 BARGAINING POWER OF SUPPLIERS

6.6.4 BARGAINING POWER OF BUYERS

6.6.5 DEGREE OF COMPETITION

6.7 YC-YCC SHIFT

FIGURE 25 YC & YCC SHIFT FOR THE AGRIGENOMICS MARKET

6.8 PATENT ANALYSIS

FIGURE 26 NUMBER OF PATENTS GRANTED FOR AGRIGENOMICS, 2017–2021

FIGURE 27 REGIONAL ANALYSIS OF PATENTS GRANTED IN THE

AGRIGENOMICS MARKET, 2017–2021

TABLE 5 LIST OF A FEW PATENTS IN THE AGRIGENOMICS MARKET

6.9 CASE STUDIES

6.9.1 CASE STUDY 1

TABLE 6 DISCOVERY AND DEVELOPMENT OF EXOME-BASED, CO-DOMINANT SINGLE NUCLEOTIDE POLYMORPHISM MARKERS IN HEXAPLOID WHEAT

6.9.2 CASE STUDY 2

TABLE 7 HY-LINE INTERNATIONAL USES GENETIC RESEARCH AND TESTING TO COMBAT COMMERCIAL EGG-LAYING CHALLENGES

7 REGULATORY FRAMEWORK

7.1 INTRODUCTION

7.1.1 INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

7.1.2 WORLD ORGANIZATION FOR ANIMAL HEALTH (OIE)

7.2 NORTH AMERICA

7.2.1 US

7.2.1.1 US regulations on genetically modified crops

7.2.2 CANADA

7.2.3 MEXICO

7.3 EUROPE

7.3.1 GERMANY

7.3.2 UK

7.3.3 SPAIN

7.4 ASIA PACIFIC

7.4.1 CHINA

7.4.2 INDIA

7.4.2.1 Department of Animal Husbandry, Dairying & Fisheries (DADF)

7.4.2.2 Department of Biotechnology

7.4.3 JAPAN

7.4.4 ISRAEL

7.4.5 AUSTRALIA

7.4.6 NEW ZEALAND

7.5 LATIN AMERICA

8 AGRIGENOMICS MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 28 AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021 VS. 2026 (USD MILLION)

TABLE 8 AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 9 AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

8.2 COVID-19 IMPACT ON THE AGRIGENOMICS MARKET, BY APPLICATION (2018-2021)

8.2.1 OPTIMISTIC SCENARIO

TABLE 10 OPTIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS

MARKET SIZE, BY APPLICATION, 2018–2021 (USD MILLION)

8.2.2 PESSIMISTIC SCENARIO

TABLE 11 PESSIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2021 (USD MILLION)

8.2.3 REALISTIC SCENARIO

TABLE 12 REALISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2021 (USD MILLION)

8.3 CROPS

8.3.1 AVAILABILITY OF GENOMIC TOOLS AND RESOURCES LEADING TO A NEW REVOLUTION OF CROP BREEDING, AS THEY FACILITATE THE COMBINATION OF COMPLEX TRAITS

TABLE 13 AGRIGENOMICS: CROPS MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 14 AGRIGENOMICS: CROPS MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

8.4 LIVESTOCK

8.4.1 GENOMIC SELECTION IS THE FUTURE OF LIVESTOCK BREEDING COMPANIES AS IT IMPROVES THE GENETIC GAIN BY DECREASING GENETIC INTERVAL

AND IMPROVING RELIABILITY

TABLE 15 AGRIGENOMICS: LIVESTOCK MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 16 AGRIGENOMICS: LIVESTOCK MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

9 AGRIGENOMICS MARKET, BY OBJECTIVE

9.1 INTRODUCTION

FIGURE 29 AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021 VS. 2026 (USD MILLION)

TABLE 17 AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 18 AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

9.2 COVID-19 IMPACT ON THE AGRIGENOMICS MARKET, BY OBJECTIVE (2018-2021)

9.2.1 OPTIMISTIC SCENARIO

TABLE 19 OPTIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2021 (USD MILLION)

9.2.2 PESSIMISTIC SCENARIO

TABLE 20 PESSIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2021 (USD MILLION)

9.2.3 REALISTIC SCENARIO

TABLE 21 REALISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2021 (USD MILLION)

9.3 DNA EXTRACTION & PURIFICATION

9.3.1 DNA EXTRACTION IS INTEGRAL TO THE PROCESS OF GENETIC MODIFICATION OF PLANTS

TABLE 22 AGRIGENOMICS: DNA EXTRACTION & PURIFICATION MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 23 AGRIGENOMICS: DNA EXTRACTION & PURIFICATION MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

9.4 RNA & DNA SEQUENCING

9.4.1 RNA & DNA SEQUENCING HAS BEEN INCREASINGLY CONSIDERED A VERY POPULAR TECHNIQUE THAT UNRAVELS MANY IMPORTANT ASPECTS RELATED TO THEIR BIOLOGICAL ROLES

TABLE 24 AGRIGENOMICS: RNA & DNA SEQUENCING MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 25 AGRIGENOMICS: DNA & RNA SEQUENCING MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

9.5 GENOTYPING

9.5.1 BECAUSE OF THE HIGH PRICE TAG, WHICH COMPRISES THE BREEDING BUDGETS, THERE IS A PRESSING NEED TO OPTIMIZE GENOTYPING PROCEDURES IN AGRICULTURE

TABLE 26 AGRIGENOMICS: GENOTYPING MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 27 AGRIGENOMICS: GENOTYPING MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

9.6 GENE EXPRESSION PROFILING

9.6.1 STUDYING THE GENE EXPRESSION OF VARIOUS CROPS UNDER STRESS HAS LED TO THE DEVELOPMENT OF HARDIER AND DROUGHT-TOLERANT STRAINS THAT PRODUCE HIGHER YIELDS

TABLE 28 AGRIGENOMICS: GENE EXPRESSION PROFILING MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 29 AGRIGENOMICS: GENE EXPRESSION PROFILING MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

9.7 MARKER-ASSISTED SELECTION

9.7.1 THIS TECHNIQUE IS USED IN PLANT AND ANIMAL BREEDING TO SELECT

QUALITIES THAT ARE DESIRABLE FOR FARMERS AND CONSUMERS

TABLE 30 AGRIGENOMICS: MARKER-ASSISTED SELECTION MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 31 AGRIGENOMICS: MARKER-ASSISTED SELECTION MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

9.8 GMO/TRAIT PURITY TESTING

9.8.1 TO ENSURE REGULATORY COMPLIANCES, GENOMICS COMPANIES MAY FIND IT NECESSARY TO TEST GMOS PRIOR TO IMPORT/EXPORT

TABLE 32 AGRIGENOMICS: GMO/TRAIT PURITY TESTING MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 33 AGRIGENOMICS: GMO/TRAIT PURITY TESTING MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

9.9 OTHER OBJECTIVES

TABLE 34 AGRIGENOMICS: OTHER OBJECTIVES MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 35 AGRIGENOMICS: OTHER OBJECTIVES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10 AGRIGENOMICS MARKET, BY SEQUENCER TYPE

10.1 INTRODUCTION

FIGURE 30 AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2021 VS. 2026 (USD MILLION)

TABLE 36 AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2016–2020 (USD MILLION)

TABLE 37 AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2021–2026 (USD MILLION)

10.2 COVID-19 IMPACT ON THE AGRIGENOMICS MARKET, BY SEQUENCER TYPE (2018-2021)

10.2.1 OPTIMISTIC SCENARIO

TABLE 38 OPTIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2018–2021 (USD MILLION)

10.2.2 PESSIMISTIC SCENARIO

TABLE 39 PESSIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2018–2021 (USD MILLION)

10.2.3 REALISTIC SCENARIO

TABLE 40 REALISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2018–2021 (USD MILLION)

10.3 SANGAR SEQUENCING

10.3.1 SANGER SEQUENCING IS NOW EXTENSIVELY USED FOR THE INITIAL SEQUENCING OF A DNA MOLECULE TO OBTAIN THE PRIMARY SEQUENCE DATA FOR AN ORGANISM OR GENE

TABLE 41 SANGER SEQUENCING MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 42 SANGER SEQUENCING MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.4 ILLUMINA HISEQ FAMILY

10.4.1 HISEQ SYSTEMS LEVERAGE INNOVATIVE PATTERNED FLOW CELL TECHNOLOGY TO PROVIDE RAPID, HIGH-PERFORMANCE SEQUENCING

TABLE 43 ILLUMINA HISEQ FAMILY MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 44 ILLUMINA HI SEQ FAMILY MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.5 PACBIO SEQUENCERS

10.5.1 PACBIO'S SMRT (SINGLE MOLECULE REAL-TIME) SEQUENCING IS ONE OF THE MOST COMMONLY USED THIRD-GENERATION SEQUENCING TECHNOLOGIES

TABLE 45 PACBIO SEQUENCERS MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 46 PACBIO SEQUENCERS MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.6 SOLID SEQUENCERS

10.6.1 PRINCIPLE OF SOLID SEQUENCING RELIES ON THE ABILITY OF DNA LIGASE TO DETECT AND INCORPORATE BASES IN A VERY SPECIFIC MANNER

TABLE 47 SOLID SEQUENCERS MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 48 SOLID SEQUENCERS MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.7 OTHER SEQUENCER TYPES

TABLE 49 OTHER SEQUENCER TYPES MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 50 OTHER SEQUENCER TYPES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

11 AGRIGENOMICS MARKET, BY REGION

11.1 INTRODUCTION

FIGURE 31 AGRIGENOMICS MARKET, 2021-2026

TABLE 51 AGRIGENOMICS MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 52 AGRIGENOMICS MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

11.2 COVID-19 IMPACT ON THE AGRIGENOMICS MARKET, BY REGION
(2018-2021)

11.2.1 OPTIMISTIC SCENARIO

TABLE 53 OPTIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS
MARKET SIZE, BY REGION, 2018–2021 (USD MILLION)

11.2.2 PESSIMISTIC SCENARIO

TABLE 54 PESSIMISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS
MARKET SIZE, BY REGION, 2018–2021 (USD MILLION)

11.2.3 REALISTIC SCENARIO

TABLE 55 REALISTIC SCENARIO: COVID-19 IMPACT ON THE AGRIGENOMICS
MARKET SIZE, BY REGION, 2018–2021 (USD MILLION)

11.3 NORTH AMERICA

FIGURE 32 US DOMINATED THE NORTH AMERICAN AGRIGENOMICS MARKET

TABLE 56 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY COUNTRY,
2016–2020 (USD MILLION)

TABLE 57 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY COUNTRY,
2021–2026 (USD MILLION)

TABLE 58 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY SEQUENCER
TYPE, 2016–2020 (USD MILLION)

TABLE 59 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY SEQUENCER
TYPE, 2021–2026 (USD MILLION)

TABLE 60 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2016–2020 (USD MILLION)

TABLE 61 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2021–2026 (USD MILLION)

TABLE 62 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,
2016–2020 (USD MILLION)

TABLE 63 NORTH AMERICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,
2021–2026 (USD MILLION)

11.3.1 US

11.3.1.1 Presence of key agrigenomics companies focusing on innovation has led to
the increase in usage of genomics services in the country

TABLE 64 US: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD
MILLION)

TABLE 65 US: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD
MILLION)

TABLE 66 US: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD

MILLION)

TABLE 67 US: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.3.2 CANADA

11.3.2.1 Rising adoption of genomics for disease-resistant crops and livestock has provided a momentum to agrigenomics in Canada

TABLE 68 CANADA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 69 CANADA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 70 CANADA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 71 CANADA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.3.3 MEXICO

11.3.3.1 Developments in the field of GM technology to drive the agrigenomics market in Mexico

TABLE 72 MEXICO: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 73 MEXICO: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 74 MEXICO: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 75 MEXICO: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.4 EUROPE

FIGURE 33 EUROPEAN AGRIGENOMICS MARKET

TABLE 76 EUROPE: AGRIGENOMICS MARKET SIZE, BY COUNTRY, 2016–2020 (USD MILLION)

TABLE 77 EUROPE: AGRIGENOMICS MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 78 EUROPE: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2016–2020 (USD MILLION)

TABLE 79 EUROPE: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2021–2026 (USD MILLION)

TABLE 80 EUROPE: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 81 EUROPE: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 82 EUROPE: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 83 EUROPE: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.4.1 UK

11.4.1.1 Presence of numerous research institutes and innovative companies dedicated to agricultural sciences expected to drive the agrigenomics market in the UK

TABLE 84 UK: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 85 UK: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 86 UK: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 87 UK: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.4.2 GERMANY

11.4.2.1 The huge number of breeding activities carried out by private plant breeding companies in the country expected to increase the adoption of agrigenomics

TABLE 88 GERMANY: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 89 GERMANY: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 90 GERMANY: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 91 GERMANY: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.4.3 FRANCE

11.4.3.1 With the increase in demand for food, the use of genomics in agriculture in France might increase

TABLE 92 FRANCE: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 93 FRANCE: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 94 FRANCE: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 95 FRANCE: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.4.4 ITALY

11.4.4.1 Increase in the price of feed materials has shifted focus on biotech

commodities, thereby driving the market for agrigenomics

TABLE 96 ITALY: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020
(USD MILLION)

TABLE 97 ITALY: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026
(USD MILLION)

TABLE 98 ITALY: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD
MILLION)

TABLE 99 ITALY: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD
MILLION)

11.4.5 SPAIN

11.4.5.1 Farmers in Spain are gradually inclining toward various GE technologies to maintain a competitive edge

TABLE 100 SPAIN: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020
(USD MILLION)

TABLE 101 SPAIN: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026
(USD MILLION)

TABLE 102 SPAIN: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020
(USD MILLION)

TABLE 103 SPAIN: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026
(USD MILLION)

11.4.6 NETHERLANDS

11.4.6.1 Increased utilization of genetically engineered agricultural products for the livestock sector is driving the agrigenomics market

TABLE 104 NETHERLANDS: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2016–2020 (USD MILLION)

TABLE 105 NETHERLANDS: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2021–2026 (USD MILLION)

TABLE 106 NETHERLANDS: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,
2016–2020 (USD MILLION)

TABLE 107 NETHERLANDS: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,
2021–2026 (USD MILLION)

11.4.7 REST OF EUROPE

TABLE 108 REST OF EUROPE: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2016–2020 (USD MILLION)

TABLE 109 REST OF EUROPE: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2021–2026 (USD MILLION)

TABLE 110 REST OF EUROPE: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,
2016–2020 (USD MILLION)

TABLE 111 REST OF EUROPE: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,

2021–2026 (USD MILLION)

11.5 ASIA PACIFIC

FIGURE 34 ASIA PACIFIC AGRIGENOMICS MARKET

TABLE 112 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY COUNTRY,
2016–2020 (USD MILLION)

TABLE 113 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY COUNTRY,
2021–2026 (USD MILLION)

TABLE 114 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE,
2016–2020 (USD MILLION)

TABLE 115 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE,
2021–2026 (USD MILLION)

TABLE 116 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2016–2020 (USD MILLION)

TABLE 117 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY APPLICATION,
2021–2026 (USD MILLION)

TABLE 118 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,
2016–2020 (USD MILLION)

TABLE 119 ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,
2021–2026 (USD MILLION)

11.5.1 CHINA

11.5.1.1 Growing need for feeding the ever-growing population in China is expected to drive the agrigenomics market

TABLE 120 CHINA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 121 CHINA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 122 CHINA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 123 CHINA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.5.2 INDIA

11.5.2.1 With the increase in demand for food, conventional technologies are not sufficient to meet the food and nutrition requirements

TABLE 124 INDIA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 125 INDIA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 126 INDIA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 127 INDIA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.5.3 JAPAN

11.5.3.1 Minimal ecological impact of GM crops grown in Japan over past decades has strengthened the agrigenomics market

TABLE 128 JAPAN: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 129 JAPAN: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 130 JAPAN: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 131 JAPAN: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.5.4 SOUTH KOREA

11.5.4.1 Development of GM crops with useful traits that enhance food security to fuel the agrigenomics market in the country

TABLE 132 SOUTH KOREA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 133 SOUTH KOREA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 134 SOUTH KOREA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 135 SOUTH KOREA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.5.5 AUSTRALIA & NEW ZEALAND

11.5.5.1 Long-term funding to research and development and approved biotech products facilitate the agrigenomics market growth

TABLE 136 AUSTRALIA & NEW ZEALAND: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 137 AUSTRALIA & NEW ZEALAND: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 138 AUSTRALIA & NEW ZEALAND: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 139 AUSTRALIA & NEW ZEALAND: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.5.6 REST OF ASIA PACIFIC

TABLE 140 REST OF ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 141 REST OF ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY

APPLICATION, 2021–2026 (USD MILLION)

TABLE 142 REST OF ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 143 REST OF ASIA PACIFIC: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.6 SOUTH AMERICA

TABLE 144 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY COUNTRY, 2016–2020 (USD MILLION)

TABLE 145 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 146 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2016–2020 (USD MILLION)

TABLE 147 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2021–2026 (USD MILLION)

TABLE 148 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 149 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 150 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 151 SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.6.1 BRAZIL

11.6.1.1 The presence of large biotechnology companies and a sophisticated legal framework to drive Brazil's agrigenomics market

TABLE 152 BRAZIL: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 153 BRAZIL: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 154 BRAZIL: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 155 BRAZIL: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.6.2 ARGENTINA

11.6.2.1 The public sector facilitation in developing biotechnological ventures expected to propel the agrigenomics market

TABLE 156 ARGENTINA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 157 ARGENTINA: AGRIGENOMICS MARKET SIZE, BY APPLICATION,

2021–2026 (USD MILLION)

TABLE 158 ARGENTINA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 159 ARGENTINA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.6.3 REST OF SOUTH AMERICA

TABLE 160 REST OF SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 161 REST OF SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 162 REST OF SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 163 REST OF SOUTH AMERICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.7 REST OF THE WORLD (ROW)

TABLE 164 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY COUNTRY, 2016–2020 (USD MILLION)

TABLE 165 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 166 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2016–2020 (USD MILLION)

TABLE 167 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY SEQUENCER TYPE, 2021–2026 (USD MILLION)

TABLE 168 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 169 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 170 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 171 REST OF THE WORLD: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.7.1 SOUTH AFRICA

11.7.1.1 Enabling regulatory and policy-level framework for genetically engineered products has made the agrigenomics market flourish in the country

TABLE 172 SOUTH AFRICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 173 SOUTH AFRICA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 174 SOUTH AFRICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 175 SOUTH AFRICA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.7.2 SAUDI ARABIA

11.7.2.1 The increase in research and development in the field of genome technology to drive the market for agrigenomics

TABLE 176 SAUDI ARABIA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 177 SAUDI ARABIA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 178 SAUDI ARABIA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 179 SAUDI ARABIA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.7.3 ISRAEL

11.7.3.1 To meet the increasing food demand, the country is expected to develop plants that can survive its harsh climate

TABLE 180 ISRAEL: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 181 ISRAEL: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 182 ISRAEL: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 183 ISRAEL: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

11.7.4 UAE

11.7.4.1 Government initiatives along with increasing awareness programs and workshops on agrigenomics driving the market growth

TABLE 184 UAE: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION)

TABLE 185 UAE: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2025 (USD MILLION)

11.7.5 BAHRAIN

11.7.5.1 Increasing investment in genomics driving the market growth

TABLE 186 BAHRAIN: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION)

TABLE 187 BAHRAIN: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2025 (USD MILLION)

11.7.6 SAUDI ARABIA

11.7.6.1 Rich variety of diverse plant genetic resources drives the growth of the plant genomics market in the country

TABLE 188 SAUDI ARABIA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2020 (USD MILLION)

TABLE 189 SAUDI ARABIA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2020 (USD MILLION)

11.7.7 EGYPT

11.7.7.1 Rising risk for desertification is expected to increase the demand for agrigenomics to achieve better flora and fauna in future

TABLE 190 EGYPT: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION)

TABLE 191 EGYPT: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2025 (USD MILLION)

11.7.8 KUWAIT

11.7.8.1 Increasing investment in plant genomics driving the market growth

TABLE 192 KUWAIT: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION)

TABLE 193 KUWAIT: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2025 (USD MILLION)

11.7.9 OMAN

11.7.9.1 Increasing acceptance of genomics in agriculture to increase the production without compromising quality

TABLE 194 OMAN: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION)

TABLE 195 OMAN: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2025 (USD MILLION)

11.7.10 QATAR

11.7.10.1 Increasing focus on the countries' fauna getting extinct

TABLE 196 QATAR: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION)

TABLE 197 QATAR: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2018–2025 (USD MILLION)

11.7.11 REST OF MENA

11.7.11.1 Untapped opportunities in biotechnological plant genomic breeding technologies accelerating the market growth

TABLE 198 REST OF MENA: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION)

TABLE 199 REST OF MENA: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE,

2018–2025 (USD MILLION)

11.7.12 OTHER COUNTRIES IN ROW

TABLE 200 OTHER COUNTRIES IN ROW: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 201 OTHER COUNTRIES IN ROW: AGRIGENOMICS MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 202 OTHER COUNTRIES IN ROW: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2016–2020 (USD MILLION)

TABLE 203 OTHER COUNTRIES IN ROW: AGRIGENOMICS MARKET SIZE, BY OBJECTIVE, 2021–2026 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

12.2 MARKET SHARE ANALYSIS, 2020

TABLE 204 AGRIGENOMICS MARKET: DEGREE OF COMPETITION

12.3 REVENUE ANALYSIS OF KEY PLAYERS, 2017-2020

FIGURE 35 REVENUE ANALYSIS OF KEY PLAYERS IN THE MARKET, 2017–2020 (USD BILLION)

12.4 KEY PLAYER STRATEGIES: AGRIGENOMICS MARKET

12.5 COVID-19-SPECIFIC COMPANY RESPONSE

12.5.1 EUROFINS (LUXEMBOURG)

12.5.2 THERMO FISHER SCIENTIFIC, INC.

12.5.3 AGILENT TECHNOLOGIES, INC.

12.6 COMPANY EVALUATION QUADRANT (KEY PLAYERS)

12.6.1 STARS

12.6.2 PERVASIVE PLAYERS

12.6.3 EMERGING LEADERS

12.6.4 PARTICIPANTS

FIGURE 36 AGRIGENOMICS MARKET, COMPANY EVALUATION QUADRANT, 2020 (OVERALL MARKET)

12.7 PRODUCT FOOTPRINT

TABLE 205 COMPANY, BY OBJECTIVE FOOTPRINT

TABLE 206 COMPANY, BY APPLICATION FOOTPRINT

TABLE 207 COMPANY, BY SEQUENCER TYPE FOOTPRINT

TABLE 208 COMPANY, BY REGIONAL FOOTPRINT

TABLE 209 OVERALL COMPANY FOOTPRINT

12.8 AGRIGENOMICS MARKET, START-UP/SME EVALUATION QUADRANT, 2020

12.8.1 PROGRESSIVE COMPANIES

12.8.2 STARTING BLOCKS

12.8.3 RESPONSIVE COMPANIES

12.8.4 DYNAMIC COMPANIES

FIGURE 37 AGRIGENOMICS MARKET: COMPANY EVALUATION QUADRANT, 2020
(START-UP/SME)

12.9 SERVICE DEVELOPMENTS, DEALS, AND OTHER DEVELOPMENTS

12.9.1 SERVICE DEVELOPMENTS, DEALS, AND OTHER DEVELOPMENTS

TABLE 210 AGRIGENOMICS MARKET: NEW SERVICE/PRODUCT
DEVELOPMENTS, JANUARY 2016-NOVEMBER 2020

12.9.2 DEALS

TABLE 211 AGRIGENOMICS MARKET: DEALS, JANUARY 2016-MARCH 2021

12.9.3 OTHER DEVELOPMENTS

TABLE 212 AGRIGENOMICS MARKET: DEALS, MARCH 2016-APRIL 2020

13 COMPANY PROFILES

(Business overview, Products offered, Services offered, Recent developments, & MnM View)*

13.1 KEY PLAYERS

13.1.1 EUROFINS SCIENTIFIC

TABLE 213 EUROFINS SCIENTIFIC: BUSINESS OVERVIEW

FIGURE 38 EUROFINS SCIENTIFIC: COMPANY SNAPSHOT

TABLE 214 EUROFINS SCIENTIFIC: SERVICES OFFERED

TABLE 215 EUROFINS SCIENTIFIC: DEALS

TABLE 216 EUROFINS SCIENTIFIC: OTHER DEVELOPMENTS

13.1.2 AGILENT TECHNOLOGIES, INC.

TABLE 217 AGILENT TECHNOLOGIES, INC.: BUSINESS OVERVIEW

FIGURE 39 AGILENT TECHNOLOGIES, INC.: COMPANY SNAPSHOT

TABLE 218 AGILENT TECHNOLOGIES, INC.: PRODUCTS OFFERED

TABLE 219 AGILENT TECHNOLOGIES, INC.: NEW SERVICE/PRODUCT
DEVELOPMENT

TABLE 220 AGILENT TECHNOLOGIES, INC.: DEALS

13.1.3 THERMO FISHER SCIENTIFIC, INC.

TABLE 221 THERMO FISHER SCIENTIFIC, INC.: BUSINESS OVERVIEW

FIGURE 40 THERMO FISHER SCIENTIFIC, INC.: COMPANY SNAPSHOT

TABLE 222 THERMO FISHER SCIENTIFIC, INC.: SERVICES OFFERED

TABLE 223 THERMO FISHER SCIENTIFIC, INC.: PRODUCTS OFFERED

TABLE 224 THERMO FISHER SCIENTIFIC, INC.: NEW SERVICE/PRODUCT
DEVELOPMENT

TABLE 225 THERMO FISHER SCIENTIFIC, INC.: DEALS

TABLE 226 THERMO FISHER SCIENTIFIC, INC.: OTHER DEVELOPMENTS

13.1.4 LGC LIMITED

TABLE 227 LGC LIMITED: BUSINESS OVERVIEW

FIGURE 41 LGC LIMITED: COMPANY SNAPSHOT

TABLE 228 LGC LIMITED: SERVICES OFFERED

TABLE 229 LGC LIMITED: PRODUCT OFFERED

TABLE 230 LGC LIMITED: NEW SERVICE/PRODUCT DEVELOPMENT

TABLE 231 LGS LIMITED: DEALS

TABLE 232 LGC LIMITED: OTHER DEVELOPMENTS

13.1.5 ILLUMINA, INC.

TABLE 233 ILLUMINA, INC.: BUSINESS OVERVIEW

FIGURE 42 ILLUMINA, INC.: COMPANY SNAPSHOT

TABLE 234 ILLUMINA, INC.: SERVICES OFFERED

TABLE 235 ILLUMINA, INC.: PRODUCTS OFFERED

TABLE 236 ILLUMINA, INC.: NEW SERVICE/PRODUCT DEVELOPMENT

TABLE 237 ILLUMINA, INC.: DEALS

13.1.6 ZOETIS

TABLE 238 ZOETIS: BUSINESS OVERVIEW

FIGURE 43 ZOETIS: COMPANY SNAPSHOT

TABLE 239 ZOETIS: PRODUCTS OFFERED

TABLE 240 ZOETIS: NEW SERVICE DEVELOPMENT

TABLE 241 ZOETIS: DEALS

TABLE 242 ZOETIS: OTHER DEVELOPMENTS

13.1.7 NEOGEN CORPORATION

TABLE 243 NEOGEN CORPORATION: BUSINESS OVERVIEW

FIGURE 44 NEOGEN CORPORATION: COMPANY SNAPSHOT

TABLE 244 NEOGEN CORPORATION: SERVICES OFFERED

TABLE 245 NEOGEN CORPORATION: PRODUCTS OFFERED

TABLE 246 NEOGEN CORPORATION: NEW SERVICE DEVELOPMENT

TABLE 247 NEOGEN CORPORATION: DEALS

13.1.8 GALSEQ SRL

TABLE 248 GALSEQ SRL: BUSINESS OVERVIEW

TABLE 249 GALSEQ SRL: SERVICES OFFERED

13.1.9 BIOGENETIC SERVICES, INC.

TABLE 250 BIOGENETIC SERVICES, INC.: BUSINESS OVERVIEW

TABLE 251 BIOGENETIC SERVICES, INC.: SERVICES OFFERED

13.1.10 DAICEL ARBOR BIOSCIENCES

TABLE 252 DAICEL ARBOR BIOSCIENCES: BUSINESS OVERVIEW

TABLE 253 DAICEL ARBOR BIOSCIENCES: SERVICES OFFERED
TABLE 254 DAICEL ARBOR BIOSCIENCES: PRODUCTS OFFERED
TABLE 255 DAICEL ARBOR BIOSCIENCES: NEW SERVICE DEVELOPMENTS
TABLE 256 DAICEL ARBOR BIOSCIENCES: DEALS

13.2 START-UPS/SMES

13.2.1 TECAN GENOMICS, INC

TABLE 257 TECAN GENOMICS, INC.: BUSINESS OVERVIEW
TABLE 258 TECAN GENOMICS, INC.: PRODUCTS OFFERED
TABLE 259 TECAN GENOMICS, INC.: DEALS

13.2.2 GENOTYPIC TECHNOLOGY PVT LTD

TABLE 260 GENOTYPIC TECHNOLOGY PVT LTD: BUSINESS OVERVIEW
TABLE 261 GENOTYPIC TECHNOLOGY PVT LTD: SERVICES OFFERED
TABLE 262 GENOTYPIC TECHNOLOGY PVT LTD: PRODUCTS OFFERED

13.2.3 BGI GENOMICS

TABLE 263 BGI GENOMICS: BUSINESS OVERVIEW
TABLE 264 BGI GENOMICS: SERVICES OFFERED

13.2.4 GENEWIZ

TABLE 265 GENEWIZ: BUSINESS OVERVIEW
TABLE 266 GENEWIZ: SERVICES OFFERED
TABLE 267 GENEWIZ: DEALS

13.2.5 TIANGEN BIOTECH (BEIJING) CO., LTD.

TABLE 268 TIANGEN BIOTECH (BEIJING) CO., LTD.: BUSINESS OVERVIEW
TABLE 269 TIANGEN BIOTECH(BEIJING) CO., LTD.: SERVICES OFFERED

13.2.6 NUCLEOME INFORMATICS PVT LTD

13.2.7 IGA TECHNOLOGY SERVICES

13.2.8 ARRAYGEN TECHNOLOGIES PVT. LTD.

13.2.9 LC SCIENCES, LLC

13.2.10 CD GENOMICS

*Details on Business overview, Products offered, Services offered, Recent developments, & MnM View might not be captured in case of unlisted companies.

14 ADJACENT & RELATED MARKETS

14.1 INTRODUCTION

14.2 LIMITATIONS

14.3 NEXT-GENERATION SEQUENCING (NGS) MARKET

14.3.1 MARKET DEFINITION

14.3.2 MARKET OVERVIEW

FIGURE 45 NEXT-GENERATION SEQUENCING IS EXPECTED TO WITNESS A

STEADY GROWTH DURING THE FORECAST PERIOD

14.3.3 NEXT-GENERATION SEQUENCING MARKET, BY APPLICATION

TABLE 270 NEXT-GENERATION SEQUENCING MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

14.4 PLANT GENOMICS MARKET

14.4.1 MARKET DEFINITION

14.4.2 MARKET OVERVIEW

FIGURE 46 PLANT GENOMICS MARKET IS EXPECTED TO WITNESS A STEADY GROWTH DURING THE FORECAST PERIOD

14.4.3 PLANT GENOMICS MARKET, BY APPLICATION

FIGURE 47 PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2019 VS. 2025 (USD MILLION)

TABLE 271 PLANT GENOMICS MARKET SIZE, BY APPLICATION, 2017–2025 (USD THOUSAND)

15 APPENDIX

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

15.3 AVAILABLE CUSTOMIZATIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS

I would like to order

Product name: Agrigenomics Market by Application (Crops and Livestock), Sequencer Type (Sanger Sequencing, Illumina HiSeq Family, PacBio Sequencer, SOLiD Sequencer), Objectives, and Region (North America, Europe, APAC, South America, Row) - Forecast year 2026

Product link: <https://marketpublishers.com/r/AD9AAD0C9BCEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AD9AAD0C9BCEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970