

Global Smart Crop Scouting and Smart Spraying Market Report: Focus on Product, Application, Operational Analysis, and Country - Analysis Forecast Period, 2023-2028

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Abstracts

Global Smart Crop Scouting and Smart Spraying Industry Overview

The global smart crop scouting and smart spraying market was valued at \$3.47 billion in 2022, which is expected to grow with a CAGR of 18.78% and reach \$9.86 billion by 2028. This growth is primarily driven by the agricultural industry's growing emphasis on achieving higher crop yields while minimizing input costs. Smart crop scouting and smart spraying technologies offer precise and targeted approaches for pest and disease management, optimized nutrient application, and effective weed control. By enabling farmers to make data-driven decisions, enhance operational efficiency, reduce resource wastage, and mitigate environmental impact, these technologies are poised to fuel the expansion of the global smart crop scouting and smart spraying market in the coming years.

Market Introduction

Smart crop scouting and smart spraying are innovative agricultural practices that leverage advanced technologies to enhance crop management and protection. Smart crop scouting utilizes drones, sensors, and imaging systems to collect real-time data on crop health, pest presence, and field conditions, enabling precise decision-making for irrigation, fertilization, and pest control. On the other hand, smart spraying integrates sensors, AI, and data analytics to optimize pesticide application, considering factors like crop health, weather, and pest presence. These technologies minimize resource wastage, reduce environmental impact, and maximize crop yield, leading to more

efficient and sustainable farming practices.

Impact

Technological Advancements: The continuous advancements in technology, such as artificial intelligence, the Internet of Things (IoT), and data analytics, are driving the development of more sophisticated and effective smart crop scouting and smart spraying solutions. As these technologies continue to evolve, they enable farmers to gather real-time data, make accurate predictions, and apply targeted treatments, thereby optimizing crop management and increasing overall productivity.

Increasing Need for Sustainable Agriculture: With growing concerns about environmental sustainability and the need to reduce chemical usage in agriculture, there is a rising demand for smart crop scouting and smart spraying solutions. These technologies offer precise and targeted approaches for pest and disease management, minimizing the need for excessive pesticide application. By promoting sustainable practices, smart crop scouting and smart spraying help to preserve the environment, protect beneficial organisms, and ensure safer food production.

Government Initiatives and Regulations: Governments worldwide are recognizing the potential of smart farming technologies to address food security challenges and promote sustainable agricultural practices. This has led to the implementation of supportive policies, financial incentives, and regulations that encourage the adoption of smart crop scouting and smart spraying solutions. These initiatives create a favorable market environment and provide farmers with the necessary resources and support to embrace these technologies.

Increasing Farm Consolidation and Labor Shortages: The consolidation of farms and the aging farming population have resulted in labor shortages in many regions. This has fuelled the demand for smart crop scouting and smart spraying technologies that can help optimize labor efficiency and reduce reliance on manual labor. By automating and streamlining various tasks, these technologies enable farmers to overcome labor challenges, improve operational efficiency, and maximize productivity.

Impact of COVID-19

The COVID-19 pandemic has had a mixed impact on the global smart crop scouting and smart spraying market, with disruptions in supply chains and labor availability. However, it has also accelerated the adoption of digital technologies in agriculture,

driving the demand for smart solutions for remote monitoring and precision farming practices.

Market Segmentation:

Segmentation 1: by Application

Scouting

Spraying

Crop Scouting Projected to Dominate the Market over the Forecast Period

The global smart crop scouting and smart spraying market was dominated by scouting, holding a significant 70% market share in 2022 and is projected to experience the highest growth rate. Smart crop scouting enables farmers to monitor crop health, detect diseases, and optimize resource utilization through real-time data and advanced technologies. It offers benefits such as targeted interventions, reduced environmental impact, and enhanced efficiency in farming operations. The integration of AI and ML further enhances its capabilities. With increasing adoption and recognition of its value, smart crop scouting is set to drive the future of agricultural practices globally.

The growing demand for smart crop scouting is driving the concurrent increase in demand for smart spraying solutions. Smart crop scouting provides farmers with valuable data and insights about their crops, including pest infestations, weed growth, and nutrient deficiencies. With this information in hand, farmers need efficient and targeted methods to address these issues and ensure optimal crop health.

Smart spraying technologies offer precise and targeted approaches to pest and disease management, nutrient application, and weed control. By leveraging advanced technologies such as drones, sensors, and artificial intelligence, smart spraying enables farmers to apply crop protection measures with accuracy and efficiency. This not only ensures effective control of pests and weeds but also minimizes the use of chemicals, reducing environmental impact and promoting sustainable farming practices.

The integration of data from smart crop scouting with smart spraying solutions allows farmers to make data-driven decisions and take proactive measures to address crop health issues. For example, if scouting identifies a localized pest infestation, smart

spraying systems can precisely target the affected area and apply the appropriate pesticides, minimizing chemical usage and reducing the risk of harm to beneficial organisms.

By combining the insights gained from smart crop scouting with the precision application capabilities of smart spraying, farmers can optimize their crop management practices. This leads to improved crop health, higher yields, reduced input costs, and minimized environmental impact. Therefore, the increasing demand for smart crop scouting directly drives the need for smart spraying, as both technologies work synergistically to provide farmers with a comprehensive and effective approach to crop management and protection.

Segmentation 2: by Scouting Product

Equipment

Software

Software Demand for Scouting will Grow with the Highest CAGR during the Forecast Period

Software plays a crucial role in smart crop scouting, enabling farmers to collect, analyze, and interpret field data for effective crop management. Software solutions for scouting are expected to grow at a CAGR of 19.86% over the next six years. These software tools leverage technologies like artificial intelligence and data analytics to provide real-time insights on crop health, pest and disease outbreaks, and nutrient deficiencies. They enable farmers to make timely and informed decisions, optimize resource allocation, and enhance overall productivity. The increasing adoption of smart farming practices and the need for precision agriculture are driving the demand for software in crop scouting, making it a key driver in the market.

Crop scouting equipment, including robots, drones, cameras, smartphones, and other handheld devices, is expected to witness significant growth in the coming years. As the agriculture industry embraces smart farming practices, the benefits offered by these advanced tools are growing. They enable farmers to gather precise and real-time data, enhance crop monitoring capabilities, and make informed decisions for pest management, nutrient optimization, and yield improvement. The increased adoption of equipment for crop scouting is driven by the need for improved efficiency, reduced labor

requirements, and enhanced accuracy in data collection and analysis. Additionally, advancements in technology, such as the integration of artificial intelligence and machine learning, further enhance the capabilities of these tools, making them indispensable for modern agriculture. The expansion of the smart crop scouting market will continue to fuel the demand for advanced equipment, driving innovation and further improving the effectiveness of crop management practices.

Segmentation 3: Spraying by Product

Tractor Mounted and Self-Propelled Sprayers

Robotic Sprayers

Drone Sprayers

Among the various products used for smart spraying in agriculture, including tractor mounted and self-propelled sprayers, robotic sprayers, and drone sprayers, it is anticipated that drone sprayers will dominate the market over the forecast period. The increasing adoption of drone technology in agriculture is driven by its ability to provide precise and targeted spraying, efficient coverage of large areas, and reduced reliance on manual labor. Drone sprayers offer advantages such as enhanced maneuverability, accessibility to difficult terrains, and the ability to collect real-time data for improved decision-making. They enable farmers to optimize pesticide and nutrient application, reduce waste and environmental impact, and improve overall operational efficiency. Moreover, advancements in drone technology, such as improved flight stability, longer battery life, and integrated software solutions, further contribute to the growth of the market. As a result, drone sprayers are expected to witness significant demand and market dominance in the smart spraying segment, revolutionizing the way crops are protected and managed in modern agriculture.

Segmentation 4: by Region

North America - U.S., Canada, and Mexico

Europe - Germany, France, Italy, Spain, Netherlands, Belgium, Switzerland, and Rest-of-Europe

China

U.K.

Asia-Pacific - Japan, India, South Korea, Australia and New Zealand, and Rest-of-Asia-Pacific

South America - Argentina, Brazil, and Rest-of-South America

Middle East and Africa - Israel, South Africa, Turkey, and Rest-of-Middle East and Africa

North America is projected to lead the global smart crop scouting and smart spraying market over the forecast period from 2023 to 2028. North America, comprising the U.S., Canada, and Mexico, holds a significant share of the market due to the presence of advanced agricultural practices, adoption of smart farming technologies, and strong focus on improving crop productivity. The region benefits from robust infrastructure, technological advancements, and supportive government initiatives promoting sustainable agriculture. Additionally, factors such as the availability of advanced machinery, precision farming techniques, and presence of key market players contribute to the growth of the smart crop scouting and smart spraying market in North America. The region's emphasis on optimizing crop yield, reducing environmental impact, and increasing operational efficiency through data-driven farming practices further strengthens its position in the market. With a favorable regulatory environment and the increasing adoption of smart agricultural solutions, North America is expected to maintain its market leadership in the global smart crop scouting and smart spraying segment.

Recent Developments in the Global Smart Crop Scouting and Smart Spraying Market

In April 2023, Bosch BASF Smart Farming and AGCO announced their collaboration to jointly develop and commercialize smart spraying capabilities. This partnership aims to integrate advanced technology into AGCO's Fendt Rogator sprayers and collaborate on the development of new features to enhance smart farming practices.

In March 2023, Bosch BASF Smart Farming launched a smart spraying solution that will be integrated into Dammann's range of intelligent crop protection sprayers. It will be available initially in Germany and Hungary.

In November 2022, Trimble Inc. partnered with xFarm Technologies. The partnership aimed at providing greater integration between their technologies and even smarter solutions for precision farming, such as smart spraying and smart crop scouting.

Demand – Drivers and Limitations

Market Demand Drivers: Global Smart Crop Scouting and Smart Spraying Market

Need for Higher Production at Limited Resources

With the increasing global population and limited availability of arable land, there is a growing need to maximize agricultural productivity. Smart crop scouting and smart spraying technologies enable farmers to optimize crop yield by providing real-time data on crop health, nutrient levels, and pest infestations. This allows for targeted and efficient use of resources, resulting in higher production.

Labor Shortage

The migration of the population toward urban areas has resulted in a shortage of labor for agricultural activities. Smart crop scouting and smart spraying technologies help mitigate this challenge by automating tasks such as crop monitoring, weed detection, and pest management. By reducing the dependence on manual labor, these technologies enable farmers to overcome labor shortages and improve operational efficiency.

Increased Focus on Sustainable Agriculture

There is a growing global focus on sustainable agricultural practices to minimize environmental impact and conserve resources. Smart crop scouting and smart spraying technologies support sustainable agriculture by enabling precise and targeted application of fertilizers, pesticides, and herbicides. This reduces chemical usage, minimizes environmental pollution, and promotes eco-friendly farming practices.

Growing Demand for Organic and Non-GMO Crops

The consumer demand for organic and non-genetically modified organism (GMO) crops is on the rise. Smart crop scouting and smart spraying technologies play a crucial role in ensuring the quality and integrity of organic and non-GMO crops by enabling early detection of pests, diseases, and weed infestations. This facilitates timely intervention and supports the production of high-quality, pesticide-free crops to meet market demand.

Market Challenges: Global Smart Crop Scouting and Smart Spraying Market

High Initial Investment

Data Security-Related Concerns

Compatibility with Existing Equipment

Limited Availability of Skilled Labor

Market Opportunities:

Integral Offerings with Horizontal Integration in Farming

Climate Smart Agriculture

How Can This Report Add Value to an Organization?

Market Insight: The report on the global smart crop scouting and smart spraying market offers valuable insights into the industry landscape, market trends, and growth drivers. It provides a comprehensive understanding of the various smart spraying products, including tractor mounted and self-propelled sprayers, robotic sprayers, and drone sprayers. Additionally, it covers the scouting equipment used in the industry, such as drones, robots, and others. Moreover, the report discusses smart spraying applications, such as nutrient application and crop protection chemicals. This information allows organizations to gain a deeper understanding of market dynamics and identify potential opportunities for their products and applications.

Product/Innovation Strategy: By highlighting the different smart spraying products and scouting equipment, the report enables organizations to assess the market demand and adoption of these technologies. It provides insights into the advancements and innovations in the industry, helping organizations align their product development strategies to meet market requirements. Furthermore, the report explores the diverse smart spraying applications, assisting organizations in identifying areas for product diversification and expansion.

Competitive Strategy: The report profiles major players in the smart crop scouting and smart spraying market, including manufacturers of spraying equipment and scouting technology providers. It assesses their competitive landscape, product portfolios, and strategies. Organizations can gain insights into their competitors' strengths and weaknesses, identify potential partnerships or collaborations, and position themselves effectively in the market.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analyzing company coverage, product portfolio, and market penetration.

The global smart crop scouting and smart spraying market exhibits a fragmented landscape, with numerous competitors vying to meet the diverse needs of the industry. In the smart crop scouting segment, the top six companies collectively hold a market share of around 30%, indicating a relatively dispersed market. Among them, John Deere stands out as the leader, showcasing its strong presence and market position.

On the other hand, the smart spraying market is characterized by fewer players, resulting in a more consolidated landscape. While the top 4 companies capture approximately 23% of the market share, led by DJI, the remaining market share of over 77% is distributed among a handful of other players. These players include prominent names such as XAG, EFT, Small Robot Company, FMC, Kubota, TeeJet, Topcon, and Trimble.

This fragmented landscape signifies the existence of multiple competitors who offer a range of solutions tailored to the specific requirements of the agricultural industry. Each company strives to differentiate itself through innovative technologies, customer-centric approaches, and strategic partnerships. This competitive environment fosters ongoing

advancements and improvements in smart crop scouting and smart spraying solutions.

The diverse range of competitors in the market reflects the varied needs of farmers and agricultural stakeholders. The presence of numerous players encourages healthy competition, stimulates innovation, and provides farmers with a wider choice of solutions to optimize their crop scouting and spraying operations. As the industry continues to evolve, this fragmentation drives the continuous development and enhancement of technologies and services, ultimately benefiting the end users in their pursuit of improved productivity and sustainable agriculture practices.

Key Companies Profiled

Smart Crop Scouting

Semios

Bushel Inc

Climate LLC

BASF SE (xarvio)

Cropin Technology Solutions Private Limited

Corteva

Syngenta

Telus Agriculture & Consumer Goods

Taranis

Smart Spraying

AGCO Corporation

Deere & Company

WEED-IT

Precision AI Inc

HARDI

Agrifac Machinery B.V.

Ecorobotix SA

BA Pumps & Sprayers

Smart Crop Scouting and Smart Spraying

Trimble Inc

Greeneye Technology

Agridrones Solutions

Contents

1 MARKETS

- 1.1 Market Outlook
 - 1.1.1 Product Definition
 - 1.1.2 Inclusion and Exclusion Criteria
 - 1.1.3 Key Findings
- 1.2 Industry Outlook
 - 1.2.1 NGS: Overview
 - 1.2.2 Historical Trends
 - 1.2.3 Comparative Analysis of Various Technologies
 - 1.2.4 Global NGS Market: Overview
 - 1.2.5 Emerging NGS Technologies
 - 1.2.5.1 In-Situ Sequencing
 - 1.2.5.2 Microscopy-Based Sequencing
 - 1.2.5.3 Future of Ultra-High Throughput NGS
 - 1.2.6 Current Market Scenario
 - 1.2.6.1 For Researchers
 - 1.2.6.2 For Diagnostics
 - 1.2.7 COVID-19 Impact on the Global NGS Market
 - 1.2.8 Supply Chain Analysis
 - 1.2.8.1 Key Entities in Supply Chain
 - 1.2.9 Research Publications
 - 1.2.10 Primary Insights
 - 1.2.11 Pricing Analysis
- 1.3 Business Dynamics
 - 1.3.1 Impact Analysis
 - 1.3.2 Business Drivers
 - 1.3.2.1 Decreasing Cost of Genome Sequencing
 - 1.3.2.2 Potential of NGS in the Field of Oncology Research and as a Companion Diagnostic for Oncology in Clinical Settings
 - 1.3.2.3 Growing Number of Population-Wide Sequencing Studies and Government Initiatives to Integrate NGS in Healthcare
 - 1.3.2.4 Advantages of NGS Technology over Other Technologies
 - 1.3.3 Business Restraints
 - 1.3.3.1 Concerns Surrounding the Privacy of Patient Genomic Data
 - 1.3.3.2 Lack of Complete Reimbursement Coverage for NGS Testing
 - 1.3.4 Business Opportunities

1.3.4.1 Evolving Regulatory Landscape for Clinical NGS

1.3.4.2 Growing Number of Gene Mutations across Various Diseases

2 GLOBAL NGS MARKET (BY OFFERING), VALUE, VOLUME, 2022-2033

2.1 Overview

2.2 Product

2.2.1 Consumables

2.2.1.1 Library Preparation Kits

2.2.1.2 Sequencing Kits

2.2.2 Equipment

2.2.2.1 By Company

2.2.2.1.1 Illumina, Inc.

2.2.2.1.1.1 NovaSeq

2.2.2.1.1.2 NextSeq

2.2.2.1.1.3 MiSeq

2.2.2.1.1.4 MiniSeq

2.2.2.1.1.5 iSeq

2.2.2.1.2 Thermo Fisher Scientific Inc.

2.2.2.1.2.1 Ion GeneStudio S5

2.2.2.1.2.2 Ion PGM

2.2.2.1.2.3 Ion Proton

2.2.2.1.2.4 Ion Torrent Genexus

2.2.2.1.3 Pacific Biosciences of California, Inc.

2.2.2.1.3.1 Sequel II/IIe

2.2.2.1.3.2 Revio

2.2.2.1.4 Oxford Nanopore Technologies plc.

2.2.2.1.4.1 MinION

2.2.2.1.4.2 GridION

2.2.2.1.4.3 PromethION

2.2.2.1.5 Other Companies

2.2.2.2 By Throughput

2.2.2.2.1 High- and Ultra-High-Throughput

2.2.2.2.2 Medium-Throughput

2.2.2.2.3 Low-Throughput

2.3 Services

3 GLOBAL NGS MARKET (BY TECHNOLOGY TYPE), VALUE, VOLUME, 2022-2033

- 3.1 Overview
- 3.2 Sequencing by Synthesis
- 3.3 Ion Torrent Semiconductor Sequencing
- 3.4 Single-Molecule Real-Time (SMRT) Sequencing
- 3.5 Nanopore Sequencing Technology
- 3.6 Other Technologies

4 GLOBAL NGS MARKET (BY SEQUENCING), VALUE, VOLUME, 2022-2033

- 4.1 Overview
- 4.2 Whole Genome Sequencing
- 4.3 Whole Exome Sequencing
- 4.4 Targeted Sequencing

5 GLOBAL NGS MARKET (BY APPLICATION), VALUE, VOLUME, 2022-2033

- 5.1 Overview
- 5.2 Clinical Diagnostics
 - 5.2.1 Oncology
 - 5.2.2 Non-Oncology
 - 5.2.2.1 Rare Diseases
 - 5.2.2.2 Infectious Diseases
 - 5.2.2.3 Reproductive Genetics
 - 5.2.2.4 Other Non-Oncological Disorders
- 5.3 Research
 - 5.3.1 Oncology
 - 5.3.2 Non-Oncology
 - 5.3.2.1 Rare Diseases
 - 5.3.2.2 Infectious Diseases
 - 5.3.2.3 Reproductive Genetics
 - 5.3.2.4 Other Non-Oncological Disorders

6 GLOBAL NGS MARKET (BY END USER), VALUE, VOLUME, 2022-2033

- 6.1 Overview
- 6.2 Academic and Research Institutes
- 6.3 Clinical Laboratories
- 6.4 Pharmaceutical and Biotechnology Companies
- 6.5 Other End Users

7 GLOBAL NGS MARKET (BY REGION), VALUE, VOLUME, 2022-2033

7.1 North America NGS Market

7.1.1 Overview

7.1.2 Legal Requirements and Framework in North America

7.1.3 Market Dynamics

7.1.3.1 Impact Analysis

7.1.4 Key Distributors

7.1.4.1 Genome Projects

7.1.5 Market Sizing and Forecast, by Value

7.1.5.1 North America NGS Market (by Offering), by Value

7.1.5.1.1 North America NGS Market (Equipment), by Value

7.1.5.1.1.1 North America NGS Market (Equipment, by Company), by Value

7.1.5.1.1.1.1 North America NGS Market (Equipment, by Illumina, Inc.), by Value

7.1.5.1.1.1.2 North America NGS Market (Equipment, by Thermo Fisher Scientific Inc.), by Value

7.1.5.1.1.1.3 North America NGS Market (Equipment, by Pacific Biosciences of California, Inc.), by Value

7.1.5.1.1.1.4 North America NGS Market (Equipment, by Oxford Nanopore Technologies plc.), by Value

7.1.5.1.2 North America NGS Market (Equipment), by Volume

7.1.5.1.3 North America NGS Market (by Throughput), by Value

7.1.5.1.4 North America NGS Market (by Throughput), by Volume

7.1.5.2 North America NGS Market (by End User)

7.1.5.2.1 North America NGS Market (Academic and Research Institutes, by Offering)

7.1.5.2.2 North America NGS Market (Clinical Laboratories, by Offering)

7.1.5.2.3 North America NGS Market (Pharmaceutical and Biotechnology Companies, by Offering)

7.1.5.2.4 North America NGS Market (Other End Users, by Offering)

7.1.5.3 North America NGS Market (by Technology Type)

7.1.5.4 North America NGS Market (by Application)

7.1.5.4.1 North America NGS Market (Application, by Clinical Diagnostics)

7.1.5.4.2 North America NGS Market (Application, by Research)

7.1.5.5 North America NGS Market (by Country)

7.1.5.5.1 U.S.

7.1.5.5.1.1 Market Dynamics

7.1.5.5.1.2 Market Sizing and Forecast

7.1.5.5.1.2.1 U.S. NGS Market (by Offering), by Value

- 7.1.5.5.1.2.1.1 U.S. NGS Market (Equipment), by Value
- 7.1.5.5.1.2.1.1.1 U.S. NGS Market (Equipment, by Company), by Value
- 7.1.5.5.1.2.1.2 U.S. NGS Market (Equipment), by Volume
- 7.1.5.5.2 Canada
- 7.1.5.5.2.1 Market Dynamics
- 7.1.5.5.2.2 Market Sizing and Forecast
- 7.1.5.5.2.2.1 Canada NGS Market (by Offering), by Value
- 7.1.5.5.2.2.1.1 Canada NGS Market (Equipment), by Value
- 7.1.5.5.2.2.1.1.1 Canada NGS Market (Equipment, by Company), by Value
- 7.1.5.5.2.2.1.2 Canada NGS Market (Equipment), by Volume
- 7.2 Europe NGS Market
- 7.2.1 Overview
- 7.2.2 Legal Requirements and Framework in Europe
- 7.2.3 Market Dynamics
- 7.2.3.1 Impact Analysis
- 7.2.4 Key Distributors
- 7.2.5 Genome Projects
- 7.2.6 Market Sizing and Forecast, by Value
- 7.2.6.1 Europe NGS Market (by Offering), by Value
- 7.2.6.1.1 Europe NGS Market (Equipment), by Value
- 7.2.6.1.1.1 Europe NGS Market (Equipment, by Company), by Value
- 7.2.6.1.1.1.1 Europe NGS Market (Equipment, by Illumina, Inc.), by Value
- 7.2.6.1.1.1.2 Europe NGS Market (Equipment, by Thermo Fisher Scientific Inc.), by Value
- 7.2.6.1.1.1.3 Europe NGS Market (Equipment, by Pacific Biosciences of California, Inc.), by Value
- 7.2.6.1.1.1.4 Europe NGS Market (Equipment, by Oxford Nanopore Technologies plc.), by Value
- 7.2.6.1.2 Europe NGS Market (Equipment), by Volume
- 7.2.6.1.3 Europe NGS Market (by Throughput), by Value
- 7.2.6.1.4 Europe NGS Market (by Throughput), by Volume
- 7.2.6.2 Europe NGS Market (by End User)
- 7.2.6.2.1 Europe NGS Market (Academic and Research Institutes, by Offering)
- 7.2.6.2.2 Europe NGS Market (Clinical Laboratories, by Offering)
- 7.2.6.2.3 Europe NGS Market (Pharmaceutical and Biotechnology Companies, by Offering)
- 7.2.6.2.4 Europe NGS Market (Other End Users, by Offering)
- 7.2.6.3 Europe NGS Market (by Technology Type)
- 7.2.6.4 Europe NGS Market (by Application)

- 7.2.6.4.1 Europe NGS Market (Application, by Clinical Diagnostics)
- 7.2.6.4.2 Europe NGS Market (Application, by Research)
- 7.2.6.5 Europe NGS Market (by Country)
 - 7.2.6.5.1 Germany
 - 7.2.6.5.1.1 Market Dynamics
 - 7.2.6.5.1.2 Market Sizing and Forecast, by Value
 - 7.2.6.5.1.2.1 Germany NGS Market (by Offering), by Value
 - 7.2.6.5.1.2.1.1 Germany NGS Market (Equipment), by Value
 - 7.2.6.5.1.2.1.1.1 Germany NGS Market (Equipment, by Company), by Value
 - 7.2.6.5.1.2.1.1.2 Germany NGS Market (Equipment), by Volume
 - 7.2.6.5.1.2.1.2 Germany NGS Market (Equipment), by Volume
 - 7.2.6.5.2 U.K.
 - 7.2.6.5.2.1 Market Dynamics
 - 7.2.6.5.2.2 Market Sizing and Forecast, by Value
 - 7.2.6.5.2.2.1 U.K. NGS Market (by Offering), by Value
 - 7.2.6.5.2.2.1.1 U.K. NGS Market (Equipment), by Value
 - 7.2.6.5.2.2.1.1.1 U.K. NGS Market (Equipment, by Company), by Value
 - 7.2.6.5.2.2.1.1.2 U.K. NGS Market (Equipment), by Volume
 - 7.2.6.5.3 France
 - 7.2.6.5.3.1 Market Dynamics
 - 7.2.6.5.3.2 Market Sizing and Forecast, by Value
 - 7.2.6.5.3.2.1 France NGS Market (by Offering), by Value
 - 7.2.6.5.3.2.1.1 France NGS Market (Equipment), by Value
 - 7.2.6.5.3.2.1.1.1 France NGS Market (Equipment, by Company), by Value
 - 7.2.6.5.3.2.1.1.2 France NGS Market (Equipment), by Volume
 - 7.2.6.5.4 Italy
 - 7.2.6.5.4.1 Market Dynamics
 - 7.2.6.5.4.2 Market Sizing and Forecast, by Value
 - 7.2.6.5.4.2.1 Italy NGS Market (by Offering), by Value
 - 7.2.6.5.4.2.1.1 Italy NGS Market (Equipment), by Value
 - 7.2.6.5.4.2.1.1.1 Italy NGS Market (Equipment, by Company), by Value
 - 7.2.6.5.4.2.1.1.2 Italy NGS Market (Equipment), by Volume
 - 7.2.6.5.5 Spain
 - 7.2.6.5.5.1 Market Dynamics
 - 7.2.6.5.5.2 Market Sizing and Forecast, by Value
 - 7.2.6.5.5.2.1 Spain NGS Market (by Offering), by Value
 - 7.2.6.5.5.2.1.1 Spain NGS Market (Equipment), by Value
 - 7.2.6.5.5.2.1.1.1 Spain NGS Market (Equipment, by Company), by Value
 - 7.2.6.5.5.2.1.1.2 Spain NGS Market (Equipment), by Volume
 - 7.2.6.5.6 Rest-of-Europe

7.2.6.5.6.1 Market Dynamics

7.2.6.5.6.2 Market Sizing and Forecast, by Value

7.2.6.5.6.2.1 Rest-of-Europe NGS Market (by Offering), by Value

7.2.6.5.6.2.1.1 Rest-of-Europe NGS Market (Equipment), by Value

7.2.6.5.6.2.1.1.1 Rest-of-Europe NGS Market (Equipment, by Company), by Value

7.2.6.5.6.2.1.2 Rest-of-Europe NGS Market (Equipment), by Volume

7.3 Asia-Pacific NGS Market

7.3.1 Overview

7.3.2 Legal Requirements and Framework in Asia-Pacific

7.3.3 Market Dynamics

7.3.3.1 Impact Analysis

7.3.4 Key Distributors

7.3.5 Genome Projects

7.3.6 Market Sizing and Forecast, by Value

7.3.6.1 Asia-Pacific NGS Market (by Offering), by Value

7.3.6.1.1 Asia-Pacific NGS Market (Equipment), by Value

7.3.6.1.1.1 Asia-Pacific NGS Market (Equipment, by Company), by Value

7.3.6.1.1.1.1 Asia-Pacific NGS Market (Equipment, by Illumina, Inc.), by Value

7.3.6.1.1.1.2 Asia-Pacific NGS Market (Equipment, by Thermo Fisher Scientific Inc.), by Value

7.3.6.1.1.1.3 Asia-Pacific NGS Market (Equipment, by Pacific Biosciences of California, Inc.), by Value

7.3.6.1.1.1.4 Asia-Pacific NGS Market (Equipment, by Oxford Nanopore Technologies plc.), by Value

7.3.6.1.2 Asia-Pacific NGS Market (Equipment), by Volume

7.3.6.1.3 Asia-Pacific NGS Market (by Throughput), by Value

7.3.6.1.4 Asia-Pacific NGS Market (by Throughput), by Volume

7.3.6.2 Asia-Pacific NGS Market (by End User)

7.3.6.2.1 Asia-Pacific NGS Market (Academic and Research Institutes, by Offering)

7.3.6.2.2 Asia-Pacific NGS Market (Clinical Laboratories, by Offering)

7.3.6.2.3 Asia-Pacific NGS Market (Pharmaceutical and Biotechnology Companies, by Offering)

7.3.6.2.4 Asia-Pacific NGS Market (Other End Users, by Offering)

7.3.6.3 Asia-Pacific NGS Market (by Technology Type)

7.3.6.4 Asia-Pacific NGS Market (by Application)

7.3.6.4.1 Asia-Pacific NGS Market (Application, by Clinical Diagnostics)

7.3.6.4.2 Asia-Pacific NGS Market (Application, by Research)

7.3.6.5 Asia-Pacific NGS Market (by Country)

7.3.6.5.1 Japan

- 7.3.6.5.1.1 Market Dynamics
- 7.3.6.5.1.2 Market Sizing and Forecast, by Value
 - 7.3.6.5.1.2.1 Japan NGS Market (by Offering), by Value
 - 7.3.6.5.1.2.1.1 Japan NGS Market (Equipment), by Value
 - 7.3.6.5.1.2.1.1.1 Japan NGS Market (Equipment, by Company), by Value
 - 7.3.6.5.1.2.1.2 Japan NGS Market (Equipment), by Volume
- 7.3.6.5.2 China
 - 7.3.6.5.2.1 Market Dynamics
 - 7.3.6.5.2.2 Market Sizing and Forecast
 - 7.3.6.5.2.2.1 China NGS Market (by Offering), by Value
 - 7.3.6.5.2.2.1.1 China NGS Market (Equipment), by Value
 - 7.3.6.5.2.2.1.2 China NGS Market (Equipment), by Volume
- 7.3.6.5.3 India
 - 7.3.6.5.3.1 Market Dynamics
 - 7.3.6.5.3.2 Market Sizing and Forecast, by Value
 - 7.3.6.5.3.2.1 India NGS Market (by Offering), by Value
 - 7.3.6.5.3.2.1.1 India NGS Market (Equipment), by Value
 - 7.3.6.5.3.2.1.2 India NGS Market (Equipment), by Volume
- 7.3.6.5.4 South Korea
 - 7.3.6.5.4.1 Market Dynamics
 - 7.3.6.5.4.2 Market Sizing and Forecast, by Value
 - 7.3.6.5.4.2.1 South Korea NGS Market (by Offering), by Value
 - 7.3.6.5.4.2.1.1 South Korea NGS Market (Equipment), by Value
 - 7.3.6.5.4.2.1.2 South Korea NGS Market (Equipment), by Volume
- 7.3.6.5.5 Australia
 - 7.3.6.5.5.1 Market Dynamics
 - 7.3.6.5.5.2 Market Sizing and Forecast, by Value
 - 7.3.6.5.5.2.1 Australia NGS Market (by Offering), by Value
 - 7.3.6.5.5.2.1.1 Australia NGS Market (Equipment), by Value
 - 7.3.6.5.5.2.1.2 Australia NGS Market (Equipment), by Volume
- 7.3.6.5.6 Singapore
 - 7.3.6.5.6.1 Market Dynamics
 - 7.3.6.5.6.2 Market Sizing and Forecast, by Value
 - 7.3.6.5.6.2.1 Singapore NGS Market (by Offering), by Value
 - 7.3.6.5.6.2.1.1 Singapore NGS Market (Equipment), by Value
 - 7.3.6.5.6.2.1.2 Singapore NGS Market (Equipment), by Volume
- 7.3.6.5.7 New Zealand
 - 7.3.6.5.7.1 Market Dynamics
 - 7.3.6.5.7.2 Market Sizing and Forecast, by Value

- 7.3.6.5.7.2.1 New Zealand NGS Market (by Offering), by Value
 - 7.3.6.5.7.2.1.1 New Zealand NGS Market (Equipment), by Value
 - 7.3.6.5.7.2.1.2 New Zealand NGS Market (Equipment), by Volume
- 7.3.6.5.8 Rest-of-Asia-Pacific
 - 7.3.6.5.8.1 Market Dynamics
 - 7.3.6.5.8.2 Market Sizing and Forecast, by Value
 - 7.3.6.5.8.2.1 Rest-of-Asia-Pacific NGS Market (by Offering), by Value
 - 7.3.6.5.8.2.1.1 Rest-of-Asia-Pacific NGS Market (Equipment), by Value
 - 7.3.6.5.8.2.1.2 Rest-of-Asia-Pacific NGS Market (Equipment), by Volume
- 7.4 Middle East NGS Market
 - 7.4.1 Overview
 - 7.4.2 Legal Requirements and Framework in the Middle East
 - 7.4.3 Market Dynamics
 - 7.4.3.1 Impact Analysis
 - 7.4.4 Key Distributors
 - 7.4.5 Genome Projects
 - 7.4.6 Market Sizing and Forecast, by Value
 - 7.4.6.1 Middle East NGS Market (by Offering), by Value
 - 7.4.6.1.1 Middle East NGS Market (Equipment), by Value
 - 7.4.6.1.2 Middle East NGS Market (Equipment), by Volume
 - 7.4.6.1.3 Middle East NGS Market (by Throughput), by Value
 - 7.4.6.1.4 Middle East NGS Market (by Throughput), by Volume
 - 7.4.6.2 Middle East NGS Market (by End User)
 - 7.4.6.2.1 Middle East NGS Market (Academic and Research Institutes, by Offering)
 - 7.4.6.2.2 Middle East NGS Market (Clinical Laboratories, by Offering)
 - 7.4.6.2.3 Middle East NGS Market (Pharmaceutical and Biotechnology Companies, by Offering)
 - 7.4.6.2.4 Middle East NGS Market (Other End Users, by Offering)
 - 7.4.6.3 Middle East NGS Market (by Technology Type)
 - 7.4.6.4 Middle East NGS Market (by Application)
 - 7.4.6.4.1 Middle East NGS Market (Application, by Clinical Diagnostics)
 - 7.4.6.4.2 Middle East NGS Market (Application, by Research)
 - 7.4.6.5 Middle East NGS Market (by Country)
 - 7.4.6.5.1 U.A.E.
 - 7.4.6.5.1.1 Market Dynamics
 - 7.4.6.5.1.2 Market Sizing and Forecast, by Value
 - 7.4.6.5.1.2.1 U.A.E. NGS Market (by Offering), by Value
 - 7.4.6.5.1.2.1.1 U.A.E. NGS Market (Equipment), by Value
 - 7.4.6.5.1.2.1.2 U.A.E. NGS Market (Equipment), by Volume

7.4.6.5.2 K.S.A.

7.4.6.5.2.1 Market Dynamics

7.4.6.5.2.2 Market Sizing and Forecast, by Value

7.4.6.5.2.2.1 K.S.A. NGS Market (by Offering), by Value

7.4.6.5.2.2.1.1 K.S.A. NGS Market (Equipment), by Value

7.4.6.5.2.2.1.2 K.S.A. NGS Market (Equipment), by Volume

7.4.6.5.3 Egypt

7.4.6.5.3.1 Market Dynamics

7.4.6.5.3.2 Market Sizing and Forecast, by Value

7.4.6.5.3.2.1 Egypt NGS Market (by Offering), by Value

7.4.6.5.3.2.1.1 Egypt NGS Market (Equipment), by Value

7.4.6.5.3.2.1.2 Egypt NGS Market (Equipment), by Volume

7.4.6.5.4 Israel

7.4.6.5.4.1 Market Dynamics

7.4.6.5.4.2 Market Sizing and Forecast, by Value

7.4.6.5.4.2.1 Israel NGS Market (by Offering), by Value

7.4.6.5.4.2.1.1 Israel NGS Market (Equipment), by Value

7.4.6.5.4.2.1.2 Israel NGS Market (Equipment), by Volume

7.4.6.5.5 Rest-of-Middle East

7.4.6.5.5.1 Market Dynamics

7.4.6.5.5.2 Market Sizing and Forecast, by Value

7.4.6.5.5.2.1 Rest-of-Middle East NGS Market (by Offering), by Value

7.4.6.5.5.2.1.1 Rest-of-Middle East NGS Market (Equipment), by Value

7.4.6.5.5.2.1.2 Rest-of-Middle East NGS Market (Equipment), by Volume

7.5 Rest-of-the-World NGS Market

7.5.1 Overview

7.5.2 Legal Requirements and Framework in Rest-of-the-World

7.5.3 Market Dynamics

7.5.3.1 Impact Analysis

7.5.4 Genome Projects

7.5.5 Market Sizing and Forecast, by Value

7.5.5.1 Rest-of-the-World NGS Market (by Offering), by Value

7.5.5.1.1 Rest-of-the-World NGS Market (Equipment), by Value

7.5.5.1.2 Rest-of-the-World NGS Market (Equipment), by Volume

7.5.5.1.3 Rest-of-the-World NGS Market (by Throughput), by Value

7.5.5.1.4 Rest-of-the-World NGS Market (by Throughput), by Volume

7.5.5.2 Rest-of-the-World NGS Market (by End User)

7.5.5.2.1 Rest-of-the-World NGS Market (Academic and Research Institutes, by Offering)

- 7.5.5.2.2 Rest-of-the-World NGS Market (Clinical Laboratories, by Offering)
- 7.5.5.2.3 Rest-of-the-World NGS Market (Pharmaceutical and Biotechnology Companies, by Offering)
- 7.5.5.2.4 Rest-of-the-World NGS Market (Other End Users, by Offering)
- 7.5.5.3 Rest-of-the-World NGS Market (by Technology Type)
- 7.5.5.4 Rest-of-the-World NGS Market (by Application)
 - 7.5.5.4.1 Rest-of-the-World NGS Market (Application, by Clinical Diagnostics)
 - 7.5.5.4.2 Rest-of-the-World NGS Market (Application, by Research)
- 7.5.5.5 Rest-of-the-World NGS Market (by Region)
 - 7.5.5.5.1 Latin America
 - 7.5.5.5.1.1 Market Dynamics
 - 7.5.5.5.1.2 Market Sizing and Forecast
 - 7.5.5.5.1.2.1 Latin America NGS Market (by Offering)
 - 7.5.5.5.1.2.1.1 Latin America NGS Market (Equipment)
 - 7.5.5.5.1.2.1.2 Latin America NGS Market (Equipment)
 - 7.5.5.5.1.2.2 Rest-of-Rest-of-the-World
 - 7.5.5.5.1.2.2.1 Market Dynamics
 - 7.5.5.5.1.2.2.2 Market Sizing and Forecast, by Value
 - 7.5.5.5.1.2.2.2.1 Rest-of-Rest-of-the-World NGS Market (by Offering), by Value
 - 7.5.5.5.1.2.2.2.1.1 Rest-of-Rest-of-the-World NGS Market (Equipment), by Value
 - 7.5.5.5.1.2.2.2.1.2 Rest-of-Rest-of-the-World NGS Market (Equipment), by Volume

8 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

- 8.1 Competitive Landscape
 - 8.1.1 Overview
 - 8.1.2 Corporate Strategies
 - 8.1.2.1 Mergers and Acquisitions
 - 8.1.2.2 Synergistic Activities
 - 8.1.2.3 Business Expansions and Funding
 - 8.1.3 Business Strategies
 - 8.1.3.1 Product Launches/Upgradations/Approvals
- 8.2 Market Share Analysis
- 8.3 Growth-Share Analysis for the Global NGS Market (by End User)
- 8.4 Growth-Share Analysis for the Global NGS Market (by Throughput)
- 8.5 Company Profiles
 - 8.5.1 BGI Group
 - 8.5.1.1 Company Overview
 - 8.5.1.2 Role of BGI Group in the Global NGS Market

- 8.5.1.3 Key Developments
- 8.5.1.4 Target Customers
- 8.5.1.5 Analyst Perception
- 8.5.2 Illumina, Inc.
 - 8.5.2.1 Company Overview
 - 8.5.2.2 Role of Illumina, Inc. in the Global NGS Market
 - 8.5.2.3 Recent Developments
 - 8.5.2.4 Financials
 - 8.5.2.5 Target Customers
 - 8.5.2.6 Analyst Perception
- 8.5.3 Thermo Fisher Scientific Inc.
 - 8.5.3.1 Company Overview
 - 8.5.3.2 Role of Thermo Fisher Scientific Inc. in the Global NGS Market
 - 8.5.3.3 Financials
 - 8.5.3.4 Recent Developments
 - 8.5.3.5 Target Customers
 - 8.5.3.6 Analyst Perception
- 8.5.4 Pacific Biosciences of California, Inc.
 - 8.5.4.1 Company Overview
 - 8.5.4.2 Role of Pacific Biosciences of California, Inc. in the Global NGS Market
 - 8.5.4.3 Recent Developments
 - 8.5.4.4 Financials
 - 8.5.4.5 Target Customers
 - 8.5.4.6 Analyst Perception
- 8.5.5 Oxford Nanopore Technologies plc.
 - 8.5.5.1 Company Overview
 - 8.5.5.2 Role of Oxford Nanopore Technologies plc. in the Global NGS Market
 - 8.5.5.3 Recent Developments
 - 8.5.5.4 Financials
 - 8.5.5.5 Target Customers
 - 8.5.5.6 Analyst Perception
- 8.5.6 Agilent Technologies, Inc.
 - 8.5.6.1 Company Overview
 - 8.5.6.2 Role of Agilent Technologies, Inc. in the Global NGS Market
 - 8.5.6.3 Financials
 - 8.5.6.4 Recent Developments
 - 8.5.6.5 Target Customers
 - 8.5.6.6 Analyst's Perspective
- 8.5.7 Qiagen N.V.

- 8.5.7.1 Company Overview
- 8.5.7.2 Role of Qiagen N.V. in the Global NGS Market
- 8.5.7.3 Financials
- 8.5.7.4 Recent Developments
- 8.5.7.5 Target Customers
- 8.5.7.6 Analyst's Perspective
- 8.5.8 Pillar Biosciences
 - 8.5.8.1 Company Overview
 - 8.5.8.2 Role of Pillar Biosciences in the Global NGS Market
 - 8.5.8.3 Recent Developments
 - 8.5.8.4 Analyst's Perspective
- 8.5.9 Burning Rock Biotech Limited
 - 8.5.9.1 Company Overview
 - 8.5.9.2 Role of Burning Rock Biotech Limited in the Global NGS Market
 - 8.5.9.3 Financials
 - 8.5.9.4 Recent Developments
 - 8.5.9.5 Target Customers
 - 8.5.9.6 Analyst's Perspective
- 8.5.10 Singular Genomics Systems, Inc.
 - 8.5.10.1 Company Overview
 - 8.5.10.2 Role of Singular Genomics Systems, Inc. in the Global NGS Market
 - 8.5.10.3 Financials
 - 8.5.10.4 Recent Developments
 - 8.5.10.5 Target Customers
 - 8.5.10.6 Analyst's Perspective
- 8.5.11 DANAHER CORPORATION
 - 8.5.11.1 Company Overview
 - 8.5.11.2 Role of DANAHER CORPORATION in the Global NGS Market
 - 8.5.11.3 Financials
 - 8.5.11.4 Recent Developments
 - 8.5.11.5 Target Customers
 - 8.5.11.6 Analyst's Perspective
- 8.5.12 F. Hoffmann-La Roche Ltd
 - 8.5.12.1 Company Overview
 - 8.5.12.2 Role of F. Hoffmann-La Roche Ltd in the Global NGS Market
 - 8.5.12.3 Financials
 - 8.5.12.4 Recent Developments
 - 8.5.12.5 Target Customers
 - 8.5.12.6 Analyst's Perspective

8.5.13 Twist Bioscience Corporation

8.5.13.1 Company Overview

8.5.13.2 Role of Twist Bioscience Corporation in the Global NGS Market

8.5.13.3 Financials

8.5.13.4 Recent Developments

8.5.13.5 Target Customers

8.5.13.6 Analyst's Perspective

8.5.14 Revvity, Inc.

8.5.14.1 Company Overview

8.5.14.2 Role of Revvity, Inc. in the Global NGS Market

8.5.14.3 Financials

8.5.14.4 Recent Developments

8.5.14.5 Target Customers

8.5.14.6 Analyst's Perspective

8.5.15 Centogene N.V.

8.5.15.1 Company Overview

8.5.15.2 Role of Centogene N.V. in the Global NGS Market

8.5.15.3 Financials

8.5.15.4 Recent Developments

8.5.15.5 Target Customers

8.5.15.6 Analyst's Perspective

8.6 Emerging Company Snapshots

8.6.1 Element Biosciences

8.6.1.1 Company Overview

8.6.1.2 Role of Element Biosciences in the Global NGS Market

8.6.1.3 Recent Developments

8.6.2 Ultima Genomics

8.6.2.1 Company Overview

8.6.2.2 Role of Ultima Genomics in the Global NGS Market

8.6.2.3 Recent Developments

8.6.3 Genes2me

8.6.3.1 Company Overview

8.6.3.2 Role of Genes2me in the Global NGS Market

8.6.3.3 Recent Developments

8.6.4 LifeStrands Genomics Pte. Ltd.

8.6.4.1 Company Overview

8.6.4.2 Role of LifeStrands Genomics Pte. Ltd. in the Global NGS Market

8.6.4.3 Recent Developments

8.6.5 Alithea Genomics

8.6.5.1 Company Overview

8.6.5.2 Role of Alitheia Genomics in the Global NGS Market

8.6.5.3 Recent Developments

8.6.6 Real Seq Biosciences

8.6.6.1 Company Overview

8.6.6.2 Role of Real Seq Biosciences in the Global NGS Market

List Of Figures

LIST OF FIGURES

- Figure 1: Global NGS Market, Impact Analysis
- Figure 2: Global NGS Market (by Region), \$Billion, 2022 and 2033
- Figure 3: Global NGS Market Segmentation
- Figure 4: Global NGS Market Research Methodology
- Figure 5: Primary Research Methodology
- Figure 6: Bottom-Up Approach (Segment-Wise Analysis)
- Figure 7: Top-Down Approach (Segment-Wise Analysis)
- Figure 8: Global NGS Market, NGS Workflow
- Figure 9: Global NGS Market, NGS Applications
- Figure 10: Key Milestones in the Development of Modern-Day NGS Technologies
- Figure 11: Global NGS Market, \$Billion, 2022-2033
- Figure 12: Workflow of In-Situ Sequencing
- Figure 13: Workflow of Microscopy-Based Sequencing
- Figure 14: Challenges Associated with Multiplex Sequencing and their Solutions
- Figure 15: Key Milestones of the Cancer Genome Atlas Program (TCGA)
- Figure 16: Key Areas of NGS Application in SARS-CoV-2 Virus Research
- Figure 17: Global NGS Market, Supply Chain Analysis
- Figure 18: 12. List of Common Raw Materials and Suppliers in the Global NGS Market
- Figure 19: Number of Research Publications Related to NGS, 2018-2022
- Figure 20: Key Primary Insights for the Global NGS Market
- Figure 21: Average Price of NGS Platforms Based on Throughput
- Figure 22: Global NGS Market, Impact Analysis
- Figure 23: Cost of Sequencing Human Genome (\$), 2001, 2006, and 2021
- Figure 24: Estimated Number of New Cancer Cases, Million, 2020, 2030, and 2040
- Figure 25: Key Applications of NGS in Clinical Oncology
- Figure 26: Some Population-Wide Genome Sequencing Studies in Asia-Pacific
- Figure 27: Global NGS Market, Share of Global Genomic Initiatives in Different Regions (in %)
- Figure 28: Global NGS Informatics Market, Genome Sequencing Initiatives in Europe
- Figure 29: Key Features of NGS Technology
- Figure 30: Comparison of qPCR vs. NGS Technology
- Figure 31: Comparison of Microarray vs. NGS Technology
- Figure 32: Comparison of Sanger Sequencing vs. NGS Technology
- Figure 33: Key Factors Behind Poor Reimbursement of NGS in Clinical Settings
- Figure 34: Evolving Regulatory Landscape for Approval of NGS-Based Tests

- Figure 35: Key Requirements for Laboratory-Developed Tests (LDTs) as per the IVDR
- Figure 36: Global NGS Market (by Offering), Share (%), 2022 and 2033
- Figure 37: Global NGS Market (Consumables), \$Billion, 2022-2033
- Figure 38: Global NGS Market (Library Preparation Kits), \$Billion, 2022-2033
- Figure 39: Global NGS Market (Sequencing Kits), \$Billion, 2022-2033
- Figure 40: Global NGS Market (Equipment), \$Billion, 2022-2033
- Figure 41: Global NGS Market (Illumina, Inc.), \$Billion, 2022-2033
- Figure 42: Global NGS Market (Illumina, Inc.), Units, 2022-2033
- Figure 43: Illumina, Inc. (by Equipment), Units, Share (%), 2022 and 2033
- Figure 44: Global NGS Market (NovaSeq), \$Billion, 2022-2033
- Figure 45: Global NGS Market (NovaSeq), Units, 2022-2033
- Figure 46: Global NGS Market (NextSeq), \$Billion, 2022-2033
- Figure 47: Global NGS Market (NextSeq), Units, 2022-2033
- Figure 48: Global NGS Market (MiSeq), \$Million, 2022-2033
- Figure 49: Global NGS Market (MiSeq), Units, 2022-2033
- Figure 50: Global NGS Market (MiniSeq), \$Million, 2022-2033
- Figure 51: Global NGS Market (MiniSeq), Units, 2022-2033
- Figure 52: Global NGS Market (iSeq), \$Million, 2022-2033
- Figure 53: Global NGS Market (iSeq), Units, 2022-2033
- Figure 54: Global NGS Market (Thermo Fisher Scientific Inc.), \$Billion, 2022-2033
- Figure 55: Global NGS Market (Thermo Fisher Scientific Inc.), Units, 2022-2033
- Figure 56: Thermo Fisher Scientific Inc. (by Equipment), Units, Share (%), 2022 and 2033
- Figure 57: Global NGS Market (Ion GeneStudio S5), \$Million, 2022-2033
- Figure 58: Global NGS Market (Ion GeneStudio S5), Units, 2022-2033
- Figure 59: Global NGS Market (Ion PGM), \$Million, 2022-2033
- Figure 60: Global NGS Market (Ion PGM), Units, 2022-2033
- Figure 61: Global NGS Market (Ion Proton), \$Million, 2022-2033
- Figure 62: Global NGS Market (Ion Proton), Units, 2022-2033
- Figure 63: Global NGS Market (Ion Torrent Genexus), \$Million, 2022-2033
- Figure 64: Global NGS Market (Ion Torrent Genexus), Units, 2022-2033
- Figure 65: Global NGS Market (Pacific Biosciences of California, Inc.), \$Billion, 2022-2033
- Figure 66: Global NGS Market (Pacific Biosciences of California, Inc.), Units, 2022-2033
- Figure 67: Pacific Biosciences of California, Inc. (by Equipment), Units, Share (%), 2022 and 2033
- Figure 68: Global NGS Market (Sequel II/IIe), \$Million, 2022-2033
- Figure 69: Global NGS Market (Sequel II/IIe), Units, 2022-2033
- Figure 70: Global NGS Market (Revio), \$Million, 2022-2033

Figure 71: Global NGS Market (Revio), Units, 2022-2033

Figure 72: Global NGS Market (Oxford Nanopore Technologies plc.), \$Million, 2022-2033

Figure 73: Global NGS Market (MinION), \$Million, 2022-2033

Figure 74: Global NGS Market (GridION), \$Million, 2022-2033

Figure 75: Global NGS Market (PromethION), \$Million, 2022-2033

Figure 76: Global NGS Market (Other Companies), \$Million, 2022-2033

Figure 77: Features of Key High- and Ultra-High-Throughput NGS Platforms

Figure 78: Global NGS Market (High- and Ultra-High-Throughput), \$Billion, 2022-2033

Figure 79: Global NGS Market (High- and Ultra-High-Throughput, by Equipment), Units, 2022-2033

Figure 80: Features of Key Medium-Throughput NGS Platforms

Figure 81: Global NGS Market (Medium-Throughput), \$Billion, 2022-2033

Figure 82: Global NGS Market (Medium-Throughput, by Equipment), Units, 2022-2033

Figure 83: Features of Key Low-Throughput NGS Platforms

Figure 84: Global NGS Market (Low-Throughput), \$Billion, 2022-2033

Figure 85: Global NGS Market (Low-Throughput, by Equipment), Units, 2022-2033

Figure 86: Global NGS Market (Services), \$Billion, 2022-2033

Figure 87: Global NGS Market (by Technology Type)

Figure 88: Global NGS Market (by Technology Type), Share (%), 2022 and 2033

Figure 89: Steps Followed in Sequencing by Synthesis

Figure 90: Global NGS Market (Sequencing by Synthesis), \$Billion, 2022-2033

Figure 91: Process of Ion Torrent Semiconductor Sequencing

Figure 92: Global NGS Market (Ion Torrent Semiconductor Sequencing), \$Billion, 2022-2033

Figure 93: Process of Single-Molecule Real-Time Sequencing

Figure 94: Global NGS Market (Single-Molecule Real-Time Sequencing), \$Billion, 2022-2033

Figure 95: Process of Nanopore Sequencing

Figure 96: Global NGS Market (Nanopore Sequencing Technology), \$Million, 2022-2033

Figure 97: Other NGS Technologies

Figure 98: Global NGS Market (Other Technologies), \$Million, 2022-2033

Figure 99: Global NGS Market (by Sequencing)

Figure 100: Global NGS Market (by Sequencing), Share (%), 2022 and 2033

Figure 101: Global NGS Market (Whole Genome Sequencing), \$Billion, 2022-2033

Figure 102: Global NGS Market (Whole Exome Sequencing), \$Billion, 2022-2033

Figure 103: Global NGS Market (Targeted Sequencing), \$Billion, 2022-2033

Figure 104: Global NGS Market (by Application)

- Figure 105: Global NGS Market (by Application), Share (%), 2022 and 2033
- Figure 106: Key Areas of NGS Application in Clinical Diagnostics
- Figure 107: Global NGS Market (Clinical Diagnostics), \$Billion, 2022-2033
- Figure 108: Applications of NGS in Oncology
- Figure 109: Global NGS Market (Clinical Diagnostics, by Oncology), \$Billion, 2022-2033
- Figure 110: Global NGS Market (Clinical Diagnostics, by Non-Oncology), \$Billion, 2022-2033
- Figure 111: Global NGS Market (Clinical Diagnostics, by Rare Diseases), \$Billion, 2022-2033
- Figure 112: Global NGS Market (Clinical Diagnostics, by Infectious Diseases), \$Billion, 2022-2033
- Figure 113: Global NGS Market (Clinical Diagnostics, by Reproductive Genetics), \$Billion, 2022-2033
- Figure 114: Global NGS Market (Clinical Diagnostics, by Non-Oncological Disorders), \$Billion, 2022-2033
- Figure 115: Key Applications of NGS in Research
- Figure 116: Global NGS Market (Research), \$Billion, 2022-2033
- Figure 117: Global NGS Market (Research, by Oncology), \$Billion, 2022-2033
- Figure 118: NGS RUO Solutions for Non-Oncological Disorders
- Figure 119: Global NGS Market (Research, by Rare Diseases), \$Billion, 2022-2033
- Figure 120: Global NGS Market (Research, by Infectious Diseases), \$Billion, 2022-2033
- Figure 121: Global NGS Market (Research, by Reproductive Genetics), \$Billion, 2022-2033
- Figure 122: Global NGS Market (Research, by Non-Oncological Disorders), \$Billion, 2022-2033
- Figure 123: Global NGS Market (by End User)
- Figure 124: Global NGS Market (by End User), Share (%), 2022 and 2033
- Figure 125: Global NGS Market (Academic and Research Institutes), \$Billion, 2022-2033
- Figure 126: Global NGS Market (Academic and Research Institutes, by Offering), \$Billion, 2022-2033
- Figure 127: Global NGS Market (Clinical Laboratories), \$Billion, 2022-2033
- Figure 128: Global NGS Market (Clinical Laboratories, by Offering), \$Billion, 2022-2033
- Figure 129: Global NGS Market (Pharmaceutical and Biotechnology Companies), \$Billion, 2022-2033
- Figure 130: Global NGS Market (Pharmaceutical and Biotechnology Companies, by Offering), \$Billion, 2022-2033
- Figure 131: Global NGS Market (Other End Users), \$Billion, 2022-2033
- Figure 132: Global NGS Market (Other End Users, by Offering), \$Billion, 2022-2033

- Figure 133: North America NGS Market (by Country)
- Figure 134: North America NGS Market, \$Billion, 2022-2033
- Figure 135: North America NGS Market (by Offering), \$Billion, 2022-2032
- Figure 136: North America NGS Market (Equipment), \$Billion, 2022-2033
- Figure 137: North America NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 138: North America NGS Market (Equipment, by Illumina, Inc.), \$Million, 2022-2033
- Figure 139: North America NGS Market (Equipment, by Thermo Fisher Scientific Inc.), \$Million, 2022-2033
- Figure 140: North America NGS Market (Equipment, by Pacific Biosciences of California, Inc.), \$Million, 2022-2033
- Figure 141: North America NGS Market (Equipment, by Oxford Nanopore Technologies plc.), \$Million, 2022-2033
- Figure 142: North America NGS Market (Equipment), Units, 2022-2033
- Figure 143: North America NGS Market (by Throughput), \$Million, 2022-2033
- Figure 144: North America NGS Market (by Throughput), Units, 2022-2033
- Figure 145: North America NGS Market (End User), \$Billion, 2022-2033
- Figure 146: North America NGS Market (Academic and Research Institutes, by Offering), \$Million, 2022-2033
- Figure 147: North America NGS Market (Clinical Laboratories, by Offering), \$Million, 2022-2033
- Figure 148: North America NGS Market (Pharmaceutical and Biotechnology Companies, by Offering), \$Million, 2022-2033
- Figure 149: North America NGS Market (Other End Users, by Offering), \$Million, 2022-2033
- Figure 150: North America NGS Market (by Technology Type), \$Million, 2022-2033
- Figure 151: North America NGS Market (by Application), \$Billion, 2022-2033
- Figure 152: North America NGS Market (Application, by Clinical Diagnostics), \$Billion, 2022-2033
- Figure 153: North America NGS Market (Application, by Research), \$Billion, 2022-2033
- Figure 154: North America NGS Market (by Country), Share (%), 2022 and 2033
- Figure 155: U.S. NGS Market, \$Million, 2022-2033
- Figure 156: U.S. NGS Market (by Offering), \$Million, 2022-2033
- Figure 157: U.S. NGS Market (Equipment), \$Billion, 2022-2033
- Figure 158: U.S. NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 159: U.S. NGS Market (Equipment), Units, 2022-2033
- Figure 160: Canada NGS Market, \$Billion, 2022-2033
- Figure 161: Canada NGS Market (by Offering), \$Billion, 2022-2033
- Figure 162: Canada NGS Market (Equipment), \$Billion, 2022-2033

Figure 163: Canada NGS Market (Equipment, by Company), \$Million, 2022-2033

Figure 164: Canada NGS Market (Equipment), Units, 2022-2033

Figure 165: Europe NGS Market (by Country)

Figure 166: Europe NGS Market, \$Billion, 2022-2033

Figure 167: Europe NGS Market (by Offering), \$Billion, 2022-2032

Figure 168: Europe NGS Market (Equipment), \$Billion, 2022-2033

Figure 169: Europe NGS Market (Equipment, by Company), \$Million, 2022-2033

Figure 170: Europe NGS Market (Equipment, by Illumina, Inc.), \$Million, 2022-2033

Figure 171: Europe NGS Market (Equipment, by Thermo Fisher Scientific Inc.), \$Million, 2022-2033

Figure 172: Europe NGS Market (Equipment, by Pacific Biosciences of California, Inc.), \$Million, 2022-2033

Figure 173: Europe NGS Market (Equipment, by Oxford Nanopore Technologies plc.), \$Million, 2022-2033

Figure 174: Europe NGS Market (Equipment), Units, 2022-2033

Figure 175: Europe NGS Market (by Throughput), \$Million, 2022-2033

Figure 176: Europe NGS Market (by Throughput), Units, 2022-2033

Figure 177: Europe NGS Market (by End User), \$Billion, 2022-2033

Figure 178: Europe NGS Market (Academic and Research Institutes, by Offering), \$Million, 2022-2033

Figure 179: Europe NGS Market (Clinical Laboratories, by Offering), \$Million, 2022-2033

Figure 180: Europe NGS Market (Pharmaceutical and Biotechnology Companies, by Offering), \$Million, 2022-2033

Figure 181: Europe NGS Market (Other End Users, by Offering), \$Million, 2022-2033

Figure 182: Europe NGS Market (by Technology Type), \$Million, 2022-2033

Figure 183: Europe NGS Market (by Application), \$Billion, 2022-2033

Figure 184: Europe NGS Market (Application, by Clinical Diagnostics), \$Billion, 2022-2033

Figure 185: Europe NGS Market (Application, by Research), \$Billion, 2022-2033

Figure 186: Europe NGS Market (by Country), Share (%), 2022 and 2033

Figure 187: Germany NGS Market, \$Billion, 2022-2033

Figure 188: Germany NGS Market (by Offering), \$Million, 2022-2033

Figure 189: Germany NGS Market (Equipment), \$Million, 2022-2033

Figure 190: Germany NGS Market (Equipment, by Company), \$Million, 2022-2033

Figure 191: Germany NGS Market (Equipment), Units, 2022-2033

Figure 192: U.K. NGS Market, \$Billion, 2022-2033

Figure 193: U.K. NGS Market (by Offering), \$Million, 2022-2033

Figure 194: U.K. NGS Market (Equipment), \$Million, 2022-2033

- Figure 195: U.K. NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 196: U.K. NGS Market (Equipment), Units, 2022-2033
- Figure 197: France NGS Market, \$Billion, 2022-2033
- Figure 198: France NGS Market (by Offering), \$Million, 2022-2033
- Figure 199: France NGS Market (Equipment), \$Million, 2022-2033
- Figure 200: France NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 201: France NGS Market (Equipment), Units, 2022-2033
- Figure 202: Italy NGS Market, \$Billion, 2022-2033
- Figure 203: Italy NGS Market (by Offering), \$Million, 2022-2033
- Figure 204: Italy NGS Market (Equipment), \$Million, 2022-2033
- Figure 205: Italy NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 206: Italy NGS Market (Equipment), Units, 2022-2033
- Figure 207: Spain NGS Market, \$Billion, 2022-2033
- Figure 208: Spain NGS Market (by Offering), \$Million, 2022-2033
- Figure 209: Spain NGS Market (Equipment), \$Million, 2022-2033
- Figure 210: Spain NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 211: Spain NGS Market (Equipment), Units, 2022-2033
- Figure 212: Rest-of-Europe NGS Market, \$Billion, 2022-2033
- Figure 213: Rest-of-Europe NGS Market (by Offering), \$Million, 2022-2033
- Figure 214: Rest-of-Europe NGS Market (Equipment), \$Million, 2022-2033
- Figure 215: Rest-of-Europe NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 216: Rest-of-Europe NGS Market (Equipment), Units, 2022-2033
- Figure 217: Asia-Pacific NGS Market (by Country)
- Figure 218: Asia-Pacific NGS Market, \$Billion, 2022-2033
- Figure 219: Asia-Pacific NGS Market (by Offering), \$Billion, 2022-2033
- Figure 220: Asia-Pacific NGS Market (Equipment), \$Billion, 2022-2033
- Figure 221: Asia-Pacific NGS Market (Equipment, by Company), \$Million, 2022-2033
- Figure 222: Asia-Pacific NGS Market (Equipment, by Illumina, Inc.), \$Million, 2022-2033
- Figure 223: Asia-Pacific NGS Market (Equipment, by Thermo Fisher Scientific Inc.), \$Million, 2022-2033
- Figure 224: Asia-Pacific NGS Market (Equipment, by Pacific Biosciences of California, Inc.), \$Million, 2022-2033
- Figure 225: Asia-Pacific NGS Market (Equipment, by Oxford Nanopore Technologies plc.), \$Million, 2022-2033
- Figure 226: Asia-Pacific NGS Market (Equipment), Units, 2022-2033
- Figure 227: Asia-Pacific NGS Market (by Throughput), \$Million, 2022-2033
- Figure 228: Asia-Pacific NGS Market (by Throughput), Units, 2022-2033
- Figure 229: Asia-Pacific NGS Market (by End User), \$Billion, 2022-2033

Figure 230: Asia-Pacific NGS Market (Academic and Research Institutes, by Offering), \$Million, 2022-2033

Figure 231: Asia-Pacific NGS Market (Clinical Laboratories, by Offering), \$Million, 2022-2033

Figure 232: Asia-Pacific NGS Market (Pharmaceutical and Biotechnology Companies, by Offering), \$Million, 2022-2033

Figure 233: Asia-Pacific NGS Market (Other End Users, by Offering), \$Million, 2022-2033

Figure 234: Asia-Pacific NGS Market (by Technology Type), \$Million, 2022-2033

Figure 235: Asia-Pacific NGS Market (by Application), \$Billion, 2022-2033

Figure 236: Asia-Pacific NGS Market (Application, by Clinical Diagnostics), \$Million, 2022-2033

Figure 237: Asia-Pacific NGS Market (Application, by Research), \$Billion, 2022-2033

Figure 238: Asia-Pacific NGS Market (by Country), Share (%), 2022 and 2033

Figure 239: Japan NGS Market, \$Billion, 2022-2033

Figure 240: Japan NGS Market (by Offering), \$Million, 2022-2033

Figure 241: Japan NGS Market (Equipment), \$Billion, 2022-2033

Figure 242: Japan NGS Market (Equipment, by Company), \$Million, 2022-2033

Figure 243: Japan NGS Market (Equipment), Units, 2022-2033

Figure 244: China NGS Market, \$Billion, 2022-2033

Figure 245: China NGS Market (by Offering), \$Billion, 2022-2033

Figure 246: China NGS Market (Equipment), \$Billion, 2022-2033

Figure 247: China NGS Market (Equipment), Units, 2022-2033

Figure 248: India NGS Market, \$Billion, 2022-2033

Figure 249: India NGS Market (by Offering), \$Million, 2022-2033

Figure 250: India NGS Market (Equipment), \$Billion, 2022-2033

Figure 251: India NGS Market (Equipment), Units, 2022-2033

Figure 252: South Korea NGS Market, \$Billion, 2022-2033

Figure 253: South Korea NGS Market (by Offering), \$Million, 2022-2033

Figure 254: South Korea NGS Market (Equipment), \$Billion, 2022-2033

Figure 255: South Korea NGS Market (Equipment), Units, 2022-2033

Figure 256: Australia NGS Market, \$Million, 2022-2033

Figure 257: Australia NGS Market (by Offering), \$Million, 2022-2033

Figure 258: Australia NGS Market (Equipment), \$Billion, 2022-2033

Figure 259: Australia NGS Market (Equipment), Units, 2022-2033

Figure 260: Singapore NGS Market, \$Billion, 2022-2033

Figure 261: Singapore NGS Market (by Offering), \$Million, 2022-2033

Figure 262: Singapore NGS Market (Equipment), \$Million, 2022-2033

Figure 263: Singapore NGS Market (Equipment), Units, 2022-2033

- Figure 264: New Zealand NGS Market, \$Million, 2022-2033
- Figure 265: New Zealand NGS Market (by Offering), \$Million, 2022-2033
- Figure 266: New Zealand NGS Market (Equipment), \$Million, 2022-2033
- Figure 267: New Zealand NGS Market (Equipment), Units, 2022-2033
- Figure 268: Rest-of-Asia-Pacific NGS Market, \$Billion, 2022-2033
- Figure 269: Rest-of-Asia-Pacific NGS Market (by Offering), \$Million, 2022-2033
- Figure 270: Rest-of-Asia-Pacific NGS Market (Equipment), \$Million, 2022-2033
- Figure 271: Rest-of-Asia-Pacific NGS Market (Equipment), Units, 2022-2033
- Figure 272: Middle East NGS Market (by Country)
- Figure 273: Middle East NGS Market, \$Billion, 2022-2033
- Figure 274: Middle East NGS Market (by Offering), \$Billion, 2022-2032
- Figure 275: Middle East NGS Market (Equipment), \$Billion, 2022-2033
- Figure 276: Middle East NGS Market (Equipment), Units, 2022-2033
- Figure 277: Middle East NGS Market (by Throughput), \$Million, 2022-2033
- Figure 278: Middle East NGS Market (by Throughput), Units, 2022-2033
- Figure 279: Middle East NGS Market (by End User), \$Million, 2022-2033
- Figure 280: Middle East NGS Market (Academic and Research Institutes, by Offering), \$Million, 2022-2033
- Figure 281: Middle East NGS Market (Clinical Laboratories, by Offering), \$Million, 2022-2033
- Figure 282: Middle East NGS Market (Pharmaceutical and Biotechnology Companies, by Offering), \$Million, 2022-2033
- Figure 283: Middle East NGS Market (Other End Users, by Offering), \$Million, 2022-2033
- Figure 284: Middle East NGS Market (by Technology Type), \$Million, 2022-2033
- Figure 285: Middle East NGS Market (by Application), \$Billion, 2022-2033
- Figure 286: Middle East NGS Market (Application, by Clinical Diagnostics), \$Million, 2022-2033
- Figure 287: Middle East NGS Market (Application, by Research), \$Million, 2022-2033
- Figure 288: Middle East NGS Market (by Country), Share (%), 2022 and 2033
- Figure 289: U.A.E. NGS Market, \$Billion, 2022-2033
- Figure 290: U.A.E. NGS Market (by Offering), \$Million, 2022-2033
- Figure 291: U.A.E. NGS Market (Equipment), \$Million, 2022-2033
- Figure 292: U.A.E. NGS Market (Equipment), Units, 2022-2033
- Figure 293: K.S.A. NGS Market, \$Billion, 2022-2033
- Figure 294: K.S.A. NGS Market (by Offering), \$Million, 2022-2033
- Figure 295: K.S.A. NGS Market (Equipment), \$Million, 2022-2033
- Figure 296: K.S.A. NGS Market (Equipment), Units, 2022-2033
- Figure 297: Egypt NGS Market, \$Billion, 2022-2033

- Figure 298: Egypt NGS Market (by Offering), \$Million, 2022-2033
- Figure 299: Egypt NGS Market (Equipment), \$Million, 2022-2033
- Figure 300: Egypt NGS Market (Equipment), Units, 2022-2033
- Figure 301: Israel NGS Market, \$Million, 2022-2033
- Figure 302: Israel NGS Market (by Offering), \$Million, 2022-2033
- Figure 303: Israel NGS Market (Equipment), \$Million, 2022-2033
- Figure 304: Israel NGS Market (Equipment), Units, 2022-2033
- Figure 305: Rest-of-Middle East NGS Market, \$Billion, 2022-2033
- Figure 306: Rest-of-Middle East NGS Market (by Offering), \$Million, 2022-2033
- Figure 307: Rest-of-Middle East NGS Market (Equipment), \$Million, 2022-2033
- Figure 308: Rest-of-Middle East NGS Market (Equipment), Units, 2022-2033
- Figure 309: Rest-of-the-World NGS Market (by Country)
- Figure 310: Rest-of-the-World NGS Market, \$Billion, 2023-2033
- Figure 311: Rest-of-the-World NGS Market (by Offering), \$Million, 2022-2032
- Figure 312: Rest-of-the-World NGS Market (Equipment), \$Million, 2022-2033
- Figure 313: Rest-of-the-World NGS Market (Equipment), Units, 2022-2033
- Figure 314: Rest-of-the-World NGS Market (by Throughput), \$Million, 2022-2033
- Figure 315: Rest-of-the-World NGS Market (by Throughput), Units, 2022-2033
- Figure 316: Rest-of-the-World NGS Market (by End User), \$Million, 2022-2033
- Figure 317: Rest-of-the-World NGS Market (Academic and Research Institutes, by Offering), \$Million, 2022-2033
- Figure 318: Rest-of-the-World NGS Market (Clinical Laboratories, by Offering), \$Million, 2022-2033
- Figure 319: Rest-of-the-World NGS Market (Pharmaceutical and Biotechnology Companies, by Offering), \$Million, 2022-20233
- Figure 320: Rest-of-the-World NGS Market (Other End Users, by Offering), \$Million, 2022-2033
- Figure 321: Rest-of-the-World NGS Market (by Technology Type), \$Million, 2022-2033
- Figure 322: Rest-of-the-World NGS Market (by Application), \$Billion, 2022-2033
- Figure 323: Rest-of-the-World NGS Market (Application, by Clinical Diagnostics), \$Million, 2022-2033
- Figure 324: Rest-of-the-World NGS Market (Application, by Research), \$Million, 2022-2033
- Figure 325: Rest-of-the-World NGS Market (by Region), Share (%), 2022 and 2033
- Figure 326: Latin America NGS Market, \$Billion, 2022-2033
- Figure 327: Latin America NGS Market (by Offering), \$Million, 2022-2033
- Figure 328: Latin America NGS Market (Equipment), \$Million, 2022-2033
- Figure 329: Latin America NGS Market (Equipment), Units, 2022-2033
- Figure 330: Rest-of-Rest-of-the-World NGS Market, \$Billion, 2022-2033

Figure 331: Rest-of-Rest-of-the-World NGS Market (by Offering), \$Million, 2022-2033

Figure 332: Rest-of-Rest-of-the-World NGS Market (Equipment), \$Million, 2022-2033

Figure 333: Rest-of-Rest-of-the-World NGS Market (Equipment), Units, 2022-2033

Figure 334: Share of Key Developments, January 2019-May 2023

Figure 335: Number of Mergers and Acquisitions (by Company), January 2019-May 2023

Figure 336: Share of Synergistic Activities (by Company), January 2019-May 2023

Figure 337: Number of Business Expansions and Funding Activities (by Company), January 2019-May 2023

Figure 338: Share of Product Launches/Upgradations/Approvals (by Company), January 2019-May 2023

Figure 339: Market Share Analysis for Global NGS Market (by Company), 2022

Figure 340: Growth-Share Analysis for the Global NGS Market (by End User), 2022

Figure 341: Growth-Share Analysis for the Global NGS Market (by Throughput), 2022

Figure 342: Share of Companies Profiled

Figure 343: BGI Group: Overall Product Portfolio

Figure 344: Illumina, Inc.: Overall Product Portfolio

Figure 345: Illumina, Inc.: Overall Financials, \$Million, 2020-2022

Figure 346: Illumina, Inc.: Segment Revenues, \$Million, 2020-2022

Figure 347: Illumina, Inc.: Net Revenue (by Region), \$Million, 2020-2022

Figure 348: Illumina, Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 349: Thermo Fisher Scientific Inc.: Overall Product Portfolio

Figure 350: Thermo Fisher Scientific Inc.: Overall Financials, \$Million, 2020-2022

Figure 351: Thermo Fisher Scientific Inc.: Segment Revenues, \$Million, 2020-2022

Figure 352: Thermo Fisher Scientific Inc.: Net Revenue (by Region), \$Million, 2020-2022

Figure 353: Thermo Fisher Scientific Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 354: Pacific Biosciences of California, Inc.: Overall Product Portfolio

Figure 355: Pacific Biosciences of California, Inc.: Overall Financials, \$Million, 2020-2022

Figure 356: Pacific Biosciences of California, Inc.: Segment Revenue, \$Million, 2020-2022

Figure 357: Pacific Biosciences of California, Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 358: Oxford Nanopore Technologies plc.: Overall Product Portfolio

Figure 359: Oxford Nanopore Technologies plc.: Overall Financials, \$Million, 2020-2022

Figure 360: Oxford Nanopore Technologies plc.: Segment Revenue, \$Million, 2020-2022

Figure 361: Oxford Nanopore Technologies plc.: Net Revenue (by Region), \$Million,

2020-2022

Figure 362: Oxford Nanopore Technologies plc.: R&D Expenditure, \$Million, 2020-2022

Figure 363: Agilent Technologies, Inc.: Overall Product Portfolio

Figure 364: Agilent Technologies, Inc.: Overall Financials, \$Million, 2020-2022

Figure 365: Agilent Technologies, Inc.: Segment Revenue, \$Million, 2020-2022

Figure 366: Agilent Technologies, Inc.: Net Revenue (by Region), \$Million, 2020-2022

Figure 367: Agilent Technologies, Inc.: R&D Expenditure, \$Million, 2020-2022

Figure 368: Qiagen N.V.: Overall Product Portfolio

Figure 369: Qiagen N.V.: Overall Financials, \$Million, 2020-2022

Figure 370: Qiagen N.V.: Segment Revenue, \$Million, 2020-2022

Figure 371: Qiagen N.V.: Net Revenue (by Region), \$Million, 2020-2022

Figure 372: Qiagen N.V.: R&D Expenditure, \$Million, 2020-2022

Figure 373: Pillar Biosciences: Overall Product Portfolio

Figure 374: Burning Rock Biotech Limited: Overall Product Portfolio

Figure 375: Burning Rock Biotech Limited: Overall Financials, \$Million, 2020-2022

Figure 376: Burning Rock Biotech Limited: Segment Revenue, \$Million, 2020-2022

Figure 377: Burning Rock Biotech Limited: Net Revenue (by Region), \$Million,
2020-2022

Figure 378: Burning Rock Biotech Limited: R&D Expenditure, \$Million, 2020-2022

Figure 379: Singular Genomics Systems, Inc.: Overall Product Portfolio

Figure 380: Singular Genomics Systems, Inc.: Overall Financials, \$Million, 2021 and
2022

Figure 381: Singular Genomics Systems, Inc.: R&D Expenditure, \$Million, 2021-2022

Figure 382: DANAHER CORPORATION: Overall Product Portfolio

Figure 383: DANAHER CORPORATION: Overall Financials, \$Million, 2020-2022

Figure 384: DANAHER CORPORATION: Segment Revenue, \$Million, 2020-2022

Figure 385: DANAHER CORPORATION: Net Revenue (by Region), \$Million,
2020-2022

Figure 386: DANAHER CORPORATION: R&D Expenditure, \$Million, 2020-2022

Figure 387: F. Hoffmann-La Roche Ltd: Overall Product Portfolio

Figure 388: F. Hoffmann-La Roche Ltd: Overall Financials, \$Million, 2020-2022

Figure 389: F. Hoffmann-La Roche Ltd: Segment Revenue, \$Million, 2020-2022

Figure 390: F. Hoffmann-La Roche Ltd: R&D Expenditure, \$Million, 2020-2022

Figure 391: Twist Bioscience Corporation: Overall Product Portfolio

Figure 392: Twist Bioscience Corporation: Overall Financials, \$Million, 2020-2022

Figure 393: Twist Bioscience Corporation: Segment Revenue, \$Million, 2020-2022

Figure 394: Twist Bioscience Corporation: Net Revenue (by Region), \$Million,
2020-2022

Figure 395: Twist Bioscience Corporation: R&D Expenditure, \$Million, 2020-2022

- Figure 396: Revvity, Inc.: Overall Product Portfolio
- Figure 397: Revvity, Inc.: Overall Financials, \$Million, 2020-2022
- Figure 398: Revvity, Inc.: Segment Revenue, \$Million, 2020-2022
- Figure 399: Revvity, Inc.: Net Revenue (by Region), \$Million, 2020-2022
- Figure 400: Revvity, Inc.: R&D Expenditure, \$Million, 2020-2022
- Figure 401: Centogene N.V.: Overall Product Portfolio
- Figure 402: Centogene N.V.: Overall Financials, \$Million, 2021-2022
- Figure 403: Centogene N.V.: Segment Revenue, \$Million, 2021-2022
- Figure 404: Centogene N.V.: Net Revenue (by Region), \$Million, 2021-2022
- Figure 405: Centogene N.V.: R&D Expenditure, \$Million, 2021-2022
- Figure 406: Element Biosciences: Overall Product Portfolio
- Figure 407: Ultima Genomics: Overall Product Portfolio
- Figure 408: Genes2me: Overall Product Portfolio
- Figure 409: LifeStrands Genomics Pte. Ltd.: Overall Product Portfolio
- Figure 410: Alithea Genomics: Overall Product Portfolio
- Figure 411: Real Seq Biosciences: Overall Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Key Questions Answered in the Report
Table 2: Key Features of Short-Read vs. Long-Read Sequencing
Table 3: Comparison of Key NGS Technologies
Table 4: Some Approved NGS Panels for IVD Use
Table 5: Listed Prices of Key NGS Platforms
Table 6: Clinical NGS-Based Assays for Oncology Offerings by Companies
Table 7: Genome Sequencing Projects in Latin America and the Middle East
Table 8: Status of NGS Reimbursement in Europe
Table 9: Few of the Multi-Gene NGS Panels Available in the Market
Table 10: Key Brands of NGS Library Preparation Kits
Table 11: Strengths and Limitations of Sequencing by Synthesis (SBS)
Table 12: Strengths and Limitations of Ion Torrent Semiconductor Sequencing
Table 13: Strengths and Limitations of SMRT Sequencing
Table 14: Strengths and Limitations of Nanopore Sequencing
Table 15: Strengths and Limitations of Whole Genome Sequencing
Table 16: Strengths and Limitations of Whole Exome Sequencing
Table 17: Strengths and Limitations of Targeted Sequencing
Table 18: Legal Requirements and Framework in North America
Table 19: North America NGS Market, Impact Analysis
Table 20: Genome Projects (by Country)
Table 21: Legal Requirements and Framework in Europe
Table 22: Europe NGS Market, Impact Analysis
Table 23: Some of the Key Distributors in Europe (by Company)
Table 24: Genome Projects (by Country)
Table 25: Legal Requirements and Framework in Asia-Pacific (by Country)
Table 26: Asia-Pacific NGS Market, Impact Analysis
Table 27: Some of the Key Distributors in Asia-Pacific (by Company)
Table 28: Genome Projects (by Country)
Table 29: Legal Requirements and Framework in the Middle East (by Country)
Table 30: Middle East NGS Market, Impact Analysis
Table 31: Some of the Key Distributors in the Middle East (by Company)
Table 32: Genome Projects (by Country)
Table 33: Legal Requirements and Framework in Rest-of-the-World
Table 34: Rest-of-the-World NGS Market, Impact Analysis
Table 35: Genome Projects (by Country)

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