

Next-generation Sequencing (NGS) Market Size, Share & Trends Analysis By Product, By Technology, By Application, By End User, Regional Outlook, Competitive Strategies and Segment Forecasts to 2030

<https://marketpublishers.com/r/N5462E06D89BEN.html>

Date: May 2022

Pages: 236

Price: US\$ 4,253.00 (Single User License)

ID: N5462E06D89BEN

Abstracts

Global Next-generation Sequencing (NGS) Market is projected to be worth USD 43.97 billion by 2030.

According to SPER Market Research, the Next-generation Sequencing (NGS) Market is estimated to reach USD 43.97 billion by 2030 with a CAGR of 17.5%.

The rising occurrence of cancer, advancements in NGS platforms, diminishing costs of genome sequencing, and growing applications of NGS in cancer research are the key factors that impel the escalation of the market.

Impact of COVID-19 on the Next-generation Sequencing (NGS) Market

Start-ups in the NGS market, and pharmaceutical and biopharmaceutical companies have contributed to the research of vaccines, test kits, and treatments. The high degree of research & development of the companies for developing novel drugs to treat the infection. COVID-19 has a positive impact on the Next-generation Sequencing (NGS) Market.

Scope of the report:

Market size available for years 2019-2030

Base year considered 2021

Forecast period 2022-2030

Segments covered By Product, By Technology, By Application, By End-Users, By Region

Geographies covered North America, Europe, Asia Pacific, Latin America, Middle East, Africa

Companies Covered 10x Genomics, Agilent Technologies, Beckman Coulter, Becton, BGI Group, Dickinson, and Company, Eurofins, F. Hoffmann-La Roche AG, GENEWIZ, Hamilton Company, Illumina, Lucigen Corporation, Merck, MoBiTec GmbH, Molecular Biology Resources, Novogene Co., Ltd., NuGen Technologies, Oxford Nanopore Technologies, Promega, Psomagen, Pacific Biosciences, PerkinElmer, QIAGEN, Randox, Roche, Takara Bio, Thermo Fisher, Zymo Research Corporation

Driver: advancement in NGS platform

Advancements in NGS platforms, Declining costs of genome sequencing, improving regulatory and reimbursement scenarios for NGS-based diagnostic tests, Growing incidence of cancer, and increasing applications of next-generation sequencing in cancer research; are the key drivers for the escalation of the market.

Restraints: End-user budget constraints in developing countries

The developing countries' research & development mainly depends upon external funding. Budget constraints in developing countries are the main cause to resist the expansion of the market.

Opportunity: Government & private support for large-scale sequencing

Applications of NGS in personalized medicine, molecular diagnostics, and government hold for huge level sequencing, create vast opportunities for the players in this market.

Challenges:

Interpretation of complex data from NGS platforms, Ethical issues, and Introduction of alternative technologies; are the challenges to the market.

Global Next-generation Sequencing (NGS) Market, By Product:

Based on the Product, Global Next-generation Sequencing (NGS) Market is segmented as; NGS Consumables, Sequencing Services (Exome & Targeted Resequencing & Custom Panels, Whole-Genome Sequencing & De Novo Sequencing, RNA Sequencing, Other Sequencing Services), Presequencing Products & Services (Library Preparation & Target Enrichment, Quality Control), NGS Platforms (Illumina, Thermo Fisher Scientific, Oxford Nanopore Technologies, Pacific Biosciences, Other Platforms), Bioinformatics (Data Analysis Services, NGS Data Analysis Software & Workbenches, NGS Storage, Management, & Cloud Computing Solutions), Services for NGS Platforms.

Global Next-generation Sequencing (NGS) Market, By Technology:

Based on the Technology, Global Next-generation Sequencing (NGS) Market is segmented as; ION Semiconductor Sequencing, Nanopore Sequencing, Sequencing by Synthesis, Single-Molecule Real-Time Sequencing, and Other Technologies.

Global Next-generation Sequencing (NGS) Market, By Application:

Based on the Application, Global Next-generation Sequencing (NGS) Market is segmented into; Diagnostics (Cancer Diagnostics, Infectious Disease Diagnostics, Reproductive Health Diagnostics, Other Diagnostic Applications), Drug Discovery, Agricultural & Animal Research, and Other Applications.

Global Next-generation Sequencing (NGS) Market, By End User:

Based on the End-User, Global Next-generation Sequencing (NGS) Market is segmented as; Academic Institutes & Research Centers, Hospitals & Clinics, Pharmaceutical & Biotechnology Companies, and Other End Users.

Global Next-generation Sequencing (NGS) Market, By Region:

North America dominates the major shares of the Next-generation Sequencing (NGS) Market; it is due to the growing applications of NGS in diagnostics, genomic research, and accessibility to research funding.

Contents

1. INTRODUCTION

- 1.1. Scope of the report
- 1.2. Market segment analysis

2. RESEARCH METHODOLOGY

- 2.1 Research data source
 - 2.1.1 Secondary data
 - 2.1.2 Primary data
 - 2.1.3 SPER's internal database
 - 2.1.4 Premium insight from KOL's
- 2.2 Market size estimation
 - 2.2.1 Top-down and Bottom-up approach
- 2.3 Data triangulation

3. EXECUTIVE SUMMARY

4. MARKET DYNAMICS

- 4.1. Driver, Restraint, Opportunity and Challenges analysis
 - 4.1.1 Drivers
 - 4.1.2 Restraints
 - 4.1.3 Opportunities
 - 4.1.4 Challenges
- 4.2. COVID-19 Impacts of the Next-generation Sequencing (NGS) Market

5. MARKET VARIABLES AND OUTLOOK

- 5.1. SWOT analysis
 - 5.1.1 Strengths
 - 5.1.2 Weaknesses
 - 5.1.3 Opportunities
 - 5.1.4 Threats
- 5.2. PESTEL analysis
 - 5.2.1 Political landscape
 - 5.2.2 Economic landscape

- 5.2.3 Social landscape
- 5.2.4 Technological landscape
- 5.2.5 Environmental landscape
- 5.2.6 Legal landscape
- 5.3. PORTER'S five forces analysis
 - 5.3.1 Bargaining power of suppliers
 - 5.3.2 Bargaining power of Buyers
 - 5.3.3 Threat of Substitute
 - 5.3.4 Threat of new entrant
 - 5.3.5 Competitive rivalry
- 5.4. Heat map analysis

6. NEXT-GENERATION SEQUENCING (NGS) MARKET, BY PRODUCT, 2019-2030 (USD MILLION)

- 6.1. NGS Consumables
- 6.2. Sequencing Services
 - 6.2.1. Exome & Targeted Resequencing & Custom Panels
 - 6.2.2. Whole-Genome Sequencing & De Novo Sequencing
 - 6.2.3. RNA Sequencing
 - 6.2.4. Other Sequencing Services
- 6.3. Presequencing Products & Services
 - 6.3.1 Library Preparation & Target Enrichment
 - 6.3.2 Quality Control
- 6.4. NGS Platforms
 - 6.4.1 Illumina
 - 6.4.1.1. Novaseq Systems
 - 6.4.1.2. Nextseq Systems
 - 6.4.1.3. Miseq Systems
 - 6.4.1.4. Miniseq Systems
 - 6.4.1.5. iSeq Systems
 - 6.4.2 Thermo Fisher Scientific
 - 6.4.2.1. ION PGM Systems
 - 6.4.2.2. ION Proton Systems
 - 6.4.2.3. ION Genestudio Systems
 - 6.4.2.4. Ion Torrent Genexus Systems
 - 6.4.3 Oxford Nanopore Technologies
 - 6.4.4 Pacific Biosciences
 - 6.4.5 Other Platforms

6.5. Bioinformatics

6.5.1. Data Analysis Services

6.5.2. NGS Data Analysis Software & Workbenches

6.5.3. NGS Storage, Management, & Cloud Computing Solutions

6.6. Services for NGS Platforms

7. NEXT-GENERATION SEQUENCING (NGS) MARKET, BY TECHNOLOGY, 2019-2030 (USD MILLION)

7.1. ION Semiconductor Sequencing

7.2. Nanopore Sequencing

7.3. Other Technologies

7.4. Sequencing by Synthesis

7.5. Single-Molecule Real-Time Sequencing

8. NEXT-GENERATION SEQUENCING (NGS) MARKET, BY APPLICATION, 2019-2030 (USD MILLION)

8.1. Diagnostics

8.1.1 Cancer Diagnostics

8.1.2 Infectious Disease Diagnostics

8.1.3 Reproductive Health Diagnostics

8.1.4 Other Diagnostic Applications

8.2. Drug Discovery

8.3. Agricultural & Animal Research

8.4. Other Applications

9. NEXT-GENERATION SEQUENCING (NGS) MARKET, BY END USER, 2019-2030 (USD MILLION)

9.1. Academic Institutes & Research Centers

9.2. Hospitals & Clinics

9.3. Other End Users

9.4. Pharmaceutical & Biotechnology Companies

10. NEXT-GENERATION SEQUENCING (NGS) MARKET, BY REGION, 2019-2030 (USD MILLION)

10.1. North America

- 10.1.1. United States
- 10.1.2. Canada
- 10.1.3. Mexico
- 10.2. Europe
 - 10.2.1. Germany
 - 10.2.2. United Kingdom
 - 10.2.3. France
 - 10.2.4. Italy
 - 10.2.5. Spain
 - 10.2.6. Rest of Europe
- 10.3. Asia-Pacific
 - 10.3.1. China
 - 10.3.2. Japan
 - 10.3.3. India
 - 10.3.4. Australia
 - 10.3.5. South Korea
 - 10.3.6. Rest of Asia-Pacific
- 10.4. South America
 - 10.4.1. Brazil
 - 10.4.2. Argentina
 - 10.4.3. Rest of South America
- 10.5. Middle East & Africa
 - 10.5.1. Kingdom of Saudi Arabia
 - 10.5.2. United Arab Emirates
 - 10.5.3. Rest of Middle East & Africa

11. COMPANY PROFILES

- 11.1. 11x Genomics
 - 11.1.1. Company details
 - 11.1.2. Financial outlook
 - 11.1.3. Product summary
 - 11.1.4. Recent developments
- 11.2. Agilent
 - 11.2.1. Company details
 - 11.2.2. Financial outlook
 - 11.2.3. Product summary
 - 11.2.4. Recent developments
- 11.3. Beckman Coulter

- 11.3.1. Company details
- 11.3.2. Financial outlook
- 11.3.3. Product summary
- 11.3.4. Recent developments
- 11.4. Becton
 - 11.4.1. Company details
 - 11.4.2. Financial outlook
 - 11.4.3. Product summary
 - 11.4.4. Recent developments
- 11.5. BGI Group
 - 11.5.1. Company details
 - 11.5.2. Financial outlook
 - 11.5.3. Product summary
 - 11.5.4. Recent developments
- 11.6. Eurofins
 - 11.6.1. Company details
 - 11.6.2. Financial outlook
 - 11.6.3. Product summary
 - 11.6.4. Recent developments
- 11.7. F. Hoffmann-La Roche AG
 - 11.7.1. Company details
 - 11.7.2. Financial outlook
 - 11.7.3. Product summary
 - 11.7.4. Recent developments
- 11.8. GENEWIZ
 - 11.8.1. Company details
 - 11.8.2. Financial outlook
 - 11.8.3. Product summary
 - 11.8.4. Recent developments
- 11.9. Illumina
 - 11.9.1. Company details
 - 11.9.2. Financial outlook
 - 11.9.3. Product summary
 - 11.9.4. Recent developments
- 11.10. LGC Biosearch Technologies
 - 11.10.1. Company details
 - 11.10.2. Financial outlook
 - 11.10.3. Product summary
 - 11.10.4. Recent developments

- 11.11. Lucigen Corporation
 - 11.11.1. Company details
 - 11.11.2. Financial outlook
 - 11.11.3. Product summary
 - 11.11.4. Recent developments
- 11.12. Molecular Biology Resources
 - 11.12.1. Company details
 - 11.12.2. Financial outlook
 - 11.12.3. Product summary
 - 11.12.4. Recent developments
- 11.13. NuGen Technologies
 - 11.13.1. Company details
 - 11.13.2. Financial outlook
 - 11.13.3. Product summary
 - 11.13.4. Recent developments
 - 11.13.5.
- 11.14. NZYTech
 - 11.14.1. Company details
 - 11.14.2. Financial outlook
 - 11.14.3. Product summary
 - 11.14.4. Recent developments
- 11.15. Promega, Inc.
 - 11.15.1. Company details
 - 11.15.2. Financial outlook
 - 11.15.3. Product summary
 - 11.15.4. Recent developments
- 11.16. QIAGEN
 - 11.16.1. Company details
 - 11.16.2. Financial outlook
 - 11.16.3. Product summary
 - 11.16.4. Recent developments
 - 11.16.1. Company details
 - 11.16.2. Financial outlook
 - 11.16.3. Product summary
 - 11.16.4. Recent developments
- 11.17. Takara Bio
 - 11.17.1. Company details
 - 11.17.2. Financial outlook
 - 11.17.3. Product summary

11.17.4. Recent developments

11.18. Thermo Fisher

11.18.1. Company details

11.18.2. Financial outlook

11.18.3. Product summary

11.18.4. Recent developments

11.19. Zymo Research Corporation

11.19.1. Company details

11.19.2. Financial outlook

11.19.3. Product summary

11.19.4. Recent developments

I would like to order

Product name: Next-generation Sequencing (NGS) Market Size, Share & Trends Analysis By Product, By Technology, By Application, By End User, Regional Outlook, Competitive Strategies and Segment Forecasts to 2030

Product link: <https://marketpublishers.com/r/N5462E06D89BEN.html>

Price: US\$ 4,253.00 (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/N5462E06D89BEN.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