Next-Generation Sequencing (NGS) Market by Product, Services, & Application - Global Forecasts to 2022

Description:

Next-Generation Sequencing (NGS) Market by Product (Hiseq, Miseq, Hiseq X Ten/X Five, NextSeq500, Ion Proton, PGM, Ions5, PacBio RSII), Services (Targeted, RNA, Exome, De Novo), & Application (Diagnostics, Biomarker, Agriculture) - Global Forecasts to 2022

The global next-generation sequencing market is estimated to register a CAGR of 20.5% from 2017 to 2022 to reach USD 12.45 billion by 2022. Factors such as technological advancements in NGS platforms, increasing applications of NGS, growing partnerships and collaborations, and increasing adoption of NGS among research laboratories and academic institutes are driving the growth of this market. On the other hand, accuracy and standardization concerns in diagnostic testing and the lack of skilled technical personnel are some of the key factors limiting the growth of the market.

On the basis of product and service, the NGS market is categorized into pre-sequencing products and services, NGS platforms, consumables, services for platforms, sequencing services, and bioinformatics. In 2017, the consumables segment is expected to account for the largest share of the market.

On the basis of technology, the global NGS market is segmented into sequencing by synthesis (SBS), ion semiconductor sequencing, single-molecule real-time (SMRT) sequencing, and nanopore sequencing. In 2017, the SBS technology is expected to account for the largest share of the market, majorly due to the development of new and advanced NGS platforms, the increasing demand for Illumina’s systems (including the HiSeq series and MiSeq), and the growing demand for NextSeq and HiSeq X Ten.

Based on applications, the market is categorized into six segments, namely, diagnostics, drug discovery, biomarker discovery, precision medicine, agriculture & animal research, and other application. The diagnostics application segment is expected to account for the major share of the global NGS market owing to the increasing focus of key market players on providing & developing NGS-based diagnostic tests and the growing adoption of NGS-based diagnostic tests related to oncology and infectious diseases.

On the basis of end user, the market is segmented into research centers and academic & government institutes, hospitals & clinics, pharmaceutical & biotechnology companies, and other end users. Among these end users, the hospitals and clinics segment is expected to register the highest CAGR due to the growing number of agreements between companies and hospitals for the development of advanced tests and products catering to the specific needs of hospitals and clinics. For instance, in November 2016, Illumina, Inc. entered into an agreement with Mayo Clinic (U.S.) to install its BaseSpace Clarity LIMS in Mayo’s specific laboratories.

Geographically, the NGS market is segmented into North America, Europe, Asia-Pacific, and the Rest of the World. North America is expected to command the largest share of the market in 2017, followed by Europe. The market in North America is primarily driven by the technological advancements, availability of commercial solutions for NGS data analysis, and the strong presence of key players in this region. However, Asia-Pacific is expected to register the highest growth rate during the forecast period from 2017 to 2022, due to the improving healthcare infrastructure and favorable government initiatives in this region.

The global NGS market is highly competitive, with a large number of global and local players. In 2016, the global NGS market was dominated by Illumina, Inc. (U.S.), Thermo Fisher Scientific Inc. (U.S.), and Pacific Biosciences of California, Inc. (U.S.), and together held the majority share of the NGS platforms market. New product launches, product enhancements, agreements, and partnerships were the major strategies adopted by market players to achieve growth in the market.

Research Coverage:

- This report studies the next-generation sequencing (NGS) market based on product & service, application, technology, and end user.
- The report also studies factors (such as drivers, restraints, opportunities, and challenges) affecting market growth.
- It analyzes opportunities and challenges in the market for stakeholders and provides details of the competitive landscape for market leaders.
- Furthermore, the report analyzes micromarkets with respect to their individual growth trends, prospects, and contributions to the total market.
- The report forecasts the revenue of the market segments with respect to four main regions.

Reasons to Buy the Report:

From an insights perspective, this research report has focused on various levels of analysis - industry trends, market share analysis of top ten players, and company profiles, which together comprise and discuss basic views on the competitive landscape, emerging and high-growth segments of the next-generation sequencing market, and high-growth regions and countries and their respective drivers, restraints, challenges, and opportunities.

The report will enrich both established firms as well as new entrants/smaller firms to gauge the pulse of the market, which in turn will help firms garner greater market shares. Firms purchasing the report could use any one or a combination of the below-mentioned five strategies for strengthening their market shares.

The report provides insights on the following pointers:

- Market Penetration: Comprehensive information on product portfolios and services offered by the major players in the next-generation sequencing market. The report analyzes the next generation sequencing market based on product & service, application, technology, end user, and region
- Product Development/Innovation: Detailed insights on the upcoming technologies, research and development activities, and product launches in the next-generation sequencing market
- Market Development: Comprehensive information about lucrative emerging markets. The report analyzes the markets for various next-generation sequencing products and services across geographies
- Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the next-generation sequencing market
- Competitive Assessment: In-depth assessment of market shares, strategies, products and services, distribution networks, and manufacturing capabilities of leading players in the next-generation sequencing market

Contents:

1 Introduction
   1.1 Objectives of the Study
   1.2 Market Definition
   1.3 Market Scope
      1.3.1 Markets Covered
      1.3.2 Years Considered for the Study
   1.4 Currency
   1.5 Limitations
   1.6 Stakeholders

2 Research Methodology
   2.1 Research Methodology Steps
   2.2 Research Design
   2.3 Secondary and Primary Research Methodology
      2.3.1 Secondary Research
      2.3.1.1 Key Data From Secondary Sources
      2.3.2 Primary Data
      2.3.2.1 Breakdown of Primaries
      2.3.2.2 Key Data From Primary Sources
      2.3.2.3 Key Industry Insights
   2.4 Market Size Estimation
      2.4.1 Bottom-Up Approach
      2.4.2 Top-Down Approach
   2.5 Market Breakdown and Data Triangulation
   2.6 Assumptions for the Study

3 Executive Summary
   3.1 Introduction
4 Premium Insights
4.1 Next-Generation Sequencing (NGS): Market Overview
4.2 NGS Market, By Product & Service (2017 vs 2022)
4.3 NGS Market Size, By Application, 2017 vs 2022
4.4 NGS Market, By End User (2017 vs 2022)
4.5 Geographic Analysis: NGS Market Size, By Product & Service (2017 vs 2022), USD Million

5 Market Overview
5.1 Introduction
5.2 Market Dynamics
  5.2.1 Drivers
    5.2.1.1 Technological Advancements in Sequencing Platforms
    5.2.1.2 Increasing Applications of NGS
    5.2.1.3 Growing Number of Partnerships and Collaborations
    5.2.1.4 Increasing Adoption of NGS Technologies Among Research Laboratories and Academic Institutes
  5.2.2 Restraints
    5.2.2.1 Dearth of Skilled Professionals
    5.2.2.2 Difficulties in Storage of Sequencing Data
  5.2.3 Opportunities
    5.2.3.1 Government Initiatives in Population Sequencing
    5.2.3.2 Application of NGS in Precision Medicine & Biomarker Discovery
    5.2.3.3 Emerging Markets Offer Significant Growth Opportunities
    5.2.3.4 Cloud Computing, A Prospective Service
  5.2.4 Challenges
    5.2.4.1 Interpretation of Complex Data From NGS Platforms
    5.2.4.2 Accuracy & Standardization Concerns in Diagnostic Testing
    5.2.4.3 Issues Related to the Security of NGS Data
  5.2.5 Industry Trends
    5.2.5.1 Integration of Next-Generation Sequencing With Cloud-Based Technology
    5.2.5.2 Focus on Cancer Research
    5.2.5.3 Mergers and Acquisitions
    5.2.5.4 Entry of New Market Players

6 Next-Generation Sequencing Market, By Product & Service
6.1 Introduction
6.2 Pre-Sequencing Products & Services Market
  6.2.1 Sample Preparation
    6.2.1.1 DNA Fragmentation, End Repair, A-Tailing, and Size Selection
    6.2.1.2 Library Preparation & Target Enrichment
    6.2.1.3 Quality Control
  6.3 NGS Platforms, Consumables, & Services for Platforms
    6.3.1 NGS Platforms Market
      6.3.1.1 Illumina
        6.3.1.1.1 Hiseq Series
        6.3.1.1.2 Hiseq X Ten & Hiseq X Five
        6.3.1.1.3 Miseq Series
        6.3.1.1.4 Nextseq 500
        6.3.1.1.5 Miniseq
      6.3.1.2 Thermo Fisher Scientific (Life Technologies)
        6.3.1.2.1 ION PGM
        6.3.1.2.2 ION Proton
        6.3.1.2.3 ION S5 & S5 XL
      6.3.1.3 Pacific Biosciences
        6.3.1.3.1 Pacbio Rs II
        6.3.1.3.2 Sequel System
      6.3.1.4 Oxford Nanopore
      6.3.1.5 Other Next-Generation Sequencing Platforms
      6.3.1.6 Recently Launched Sequencing Platforms
  6.4 Sequencing Services Market
    6.4.1 Targeted Re-Sequencing
    6.4.2 Rna-Seq
6.4.3 De Novo Sequencing
6.4.4 Exome Sequencing
6.4.5 Chip-Seq
6.4.6 Whole-Genome Sequencing
6.4.7 Methyl-Seq
6.4.8 Other Applications

6.5 NGS Data Analysis, Storage, and Management (Bioinformatics)
6.5.1 NGS Data Analysis Software & Workbenches
6.5.2 NGS Data Analysis Services
6.5.3 NGS Storage, Management, and Cloud Computing Solutions

7 Next-Generation Sequencing Market, By Technology
7.1 Introduction
7.2 Sequencing By Synthesis
7.3 ION Semiconductor Sequencing
7.4 Single-Molecule Real-Time Sequencing
7.5 Nanopore Sequencing

8 Next-Generation Sequencing Market, By Application
8.1 Introduction
8.2 Diagnostics
8.3 Drug Discovery
8.4 Biomarker Discovery
8.5 Precision Medicine
8.6 Agriculture & Animal Research
8.7 Other Applications

9 Next-Generation Sequencing Market, By End User
9.1 Introduction
9.2 Research Centers and Academic & Government Institutes
9.3 Hospitals & Clinics
9.4 Pharmaceutical & Biotechnology Companies
9.5 Other End Users

10 Next-Generation Sequencing Market, By Region
10.1 Introduction
10.2 North America
10.2.1 U.S.
10.2.1.1 Favorable Government Funding Scenario in the U.S. Market
10.2.1.2 Growing Focus of NGS Market Players on Strengthening Their Presence in the U.S.
10.2.1.3 Increasing Number of NGS Conferences in the U.S.
10.2.2 Canada
10.2.2.1 Favorable Government Funding Scenario in Canada
10.2.2.2 Growing Focus of Market Players on Expanding Their Presence in Canada
10.3 Europe
10.3.1 Market Players Capitalizing on Opportunities in the European NGS Market
10.3.1.1 Launch of New and Advanced Products and Services
10.3.1.2 Partnerships/Agreements/Collaborations
10.3.2 Germany, U.K., and Belgium: Major Hubs for Scientific Research
10.3.3 Growing Funding and Investments for NGS in Europe
10.4 Asia-Pacific
10.4.1 Growing Focus of Domestic and Multinational Players on APAC Market
10.4.1.1 Launch of Advanced NGS Products and Services
10.4.1.2 Partnerships/Collaborations/Agreements to Co-Develop Advanced NGS Products and Services
10.4.2 Favorable Government Funding Scenario
10.4.3 Conferences/Seminars/Training Programs
10.5 Rest of the World (RoW)
10.5.1 Focus of Key Market Players on Expanding Their Presence in RoW Countries
10.5.2 Workshops and Conferences
10.5.3 Favorable Initiatives By Public and Private Organizations

11 Competitive Landscape
11.1 Overview
11.2 Market Share Analysis
11.3 Competitive Situation and Trends
  11.3.1 Product Launches, Product Enhancements, and Service Launches
  11.3.2 Agreements, Partnerships, Collaborations, and Contracts
  11.3.3 Mergers and Acquisitions
  11.3.4 Expansions
  11.3.5 Other Developments

12 Company Profiles
  12.1 Introduction
    12.1.1 Geographic Benchmarking
  12.2 Illumina, Inc.
  12.3 Thermo Fisher Scientific Inc.
  12.4 Pacific Biosciences of California, Inc.
  12.5 Qiagen N.V.
  12.6 Beijing Genomics Institute
  12.7 Perkinelmer, Inc.
  12.8 F. Hoffmann-La Roche AG
  12.9 Agilent Technologies, Inc.
  12.10 Gatc Biotech AG
  12.11 Oxford Nanopore Technologies, Ltd.
  12.12 Macrogen, Inc.
  12.13 Eurofins Scientific

List of Tables
Table 1 List of Sequencing Platforms Launched By Market Players During 2015-2017
Table 2 New Market Players and Their Sequencing Platforms
Table 3 NGS Market Size, By Product & Service, 2015-2022 (USD Million)
Table 4 Pre-Sequencing Products & Services Market Size, By Type, 2015-2022 (USD Million)
Table 5 Pre-Sequencing Products & Services Market Size, By Region, 2015-2022 (USD Million)
Table 6 Dna Fragmentation, End Repair, A-Tailing, & Size Selection Market Size, By Region, 2015-2022 (USD Million)
Table 7 Library Preparation & Target Enrichment Market Size, By Region, 2015-2022 (USD Million)
Table 8 Quality Control Market Size, By Region, 2015-2022 (USD Million)
Table 9 NGS Instruments, Consumables, and Services Market Size, By Type, 2015-2022 (USD Million)
Table 10 NGS Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 11 NGS Consumables Market Size, By Region, 2015-2022 (USD Million)
Table 12 NGS Services for NGS Systems Market Size, By Region, 2015-2022 (USD Million)
Table 13 Illumina NGS Platforms Market Size, By Product, 2015-2022 (USD Million)
Table 14 Illumina NGS Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 15 Hiseq Series Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 16 Hiseq X Ten & Hiseq X Five Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 17 Miseq Series Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 18 Nextseq 500 Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 19 Miniseq Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 20 Thermo Fisher Scientific NGS Platforms Market Size, By Product, 2015-2022 (USD Million)
Table 21 Thermo Fisher Scientific NGS Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 22 ION PGM Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 23 ION Proton Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 24 ION S5 & S5 XL Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 25 Pacific Biosciences NGS Platforms Market Size, By Product, 2015-2022 (USD Million)
Table 26 Pacific Biosciences NGS Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 27 Pacbio Rs II Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 28 Sequel System Market Size, By Region, 2015-2022 (USD Million)
Table 29 Oxford Nanopore NGS Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 30 Other NGS Platforms Market Size, By Region, 2015-2022 (USD Million)
Table 31 Sequencing Services Market Size, By Application, 2015-2022 (USD Million)
Table 32 Sequencing Services Market Size, By Region, 2015-2022 (USD Million)
Table 33 NGS Bioinformatics Market Size, By Product & Service, 2015-2022 (USD Million)
Table 34 NGS Bioinformatics Market Size, By Region, 2015-2022 (USD Million)
Table 35 Data Analysis Software and Workbenches Market Size, By Region, 2015-2022 (USD Million)
Table 36 Data Analysis Services Market Size, By Region, 2015-2022 (USD Million)
Table 37 Next-Generation Sequencing Technologies, By Company
Table 38 Global Next-Generation Sequencing Market Size, By Technology, 2015-2022 (USD Million)
Table 39 Sequencing By Synthesis Market Size, By Region, 2015-2022 (USD Million)
Table 40 ION Semiconductor Sequencing Market Size, By Region, 2015-2022 (USD Million)
Table 41 Single-Molecule Real-Time Sequencing Market Size, By Region, 2015-2022 (USD Million)
Table 42 Nanopore Sequencing Market Size, By Region, 2015-2022 (USD Million)
Table 43 Next-Generation Sequencing Market Size, By Application, 2015-2022 (USD Million)
Table 44 Next-Generation Sequencing Market Size for Diagnostics, By Region, 2015-2022 (USD Million)
Table 45 Next-Generation Sequencing Market Size for Drug Discovery, By Region, 2015-2022 (USD Million)
Table 46 Next-Generation Sequencing Market Size for Biomarker Discovery, By Region, 2015-2022 (USD Million)
Table 47 Next-Generation Sequencing Market Size, By End User, 2015-2022 (USD Million)
Table 48 Next-Generation Sequencing Market Size for Research Centers and Academic & Government Institutes, By Region, 2015-2022 (USD Million)
Table 49 Next-Generation Sequencing Market Size for Hospitals & Clinics, By Region, 2015-2022 (USD Million)
Table 50 Next-Generation Sequencing Market Size for Pharmaceutical & Biotechnology Companies, By Region, 2015-2022 (USD Million)
Table 51 Next-Generation Sequencing Market Size for Other End Users, By Region, 2015-2022 (USD Million)
Table 52 North America: NGS Market Size, By Product & Service, 2015-2022 (USD Million)
Table 53 North America: NGS Pre-Sequencing Products & Services Market Size, By Type, 2015-2022 (USD Million)
Table 54 North America: Illumina NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 55 North America: Thermo Fisher Scientific NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 56 North America: Pacific Biosciences NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 57 North America: NGS Bioinformatics Market Size, By Product & Service, 2015-2022 (USD Million)
Table 58 North America: NGS Market Size, By Technology, 2015-2022 (USD Million)
Table 59 North America: NGS Market Size, By Application, 2015-2022 (USD Million)
Table 60 North America: NGS Market Size, By End User, 2015-2022 (USD Million)
Table 61 Europe: NGS Market Size, By Product & Service, 2015-2022 (USD Million)
Table 62 Europe: NGS Pre-Sequencing Products & Services Market Size, By Type, 2015-2022 (USD Million)
Table 63 Europe: Illumina NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 64 Europe: Thermo Fisher Scientific NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 65 Europe: Pacific Biosciences NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 66 Europe: NGS Bioinformatics Market Size, By Product & Service, 2015-2022 (USD Million)
Table 67 Europe: NGS Market Size, By Technology, 2015-2022 (USD Million)
Table 68 Europe: NGS Market Size, By Application, 2015-2022 (USD Million)
Table 69 Europe: NGS Market Size, By End User, 2015-2022 (USD Million)
Table 70 Asia-Pacific: NGS Market Size, By Product & Service, 2015-2022 (USD Million)
Table 71 Asia-Pacific: NGS Pre-Sequencing Products & Services Market Size, By Type, 2015-2022 (USD Million)
Table 72 Asia-Pacific: Illumina NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 73 Asia-Pacific: Thermo Fisher Scientific NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 74 Asia-Pacific: Pacific Biosciences NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 75 Asia-Pacific: NGS Bioinformatics Market Size, By Product & Service, 2015-2022 (USD Million)
Table 76 Asia-Pacific: NGS Market Size, By Technology, 2015-2022 (USD Million)
Table 77 Asia-Pacific: NGS Market Size, By Application, 2015-2022 (USD Million)
Table 78 Asia-Pacific: NGS Market Size, By End User, 2015-2022 (USD Million)
Table 79 RoW: NGS Market Size, By Product & Service, 2015-2022 (USD Million)
Table 80 RoW: NGS Pre-Sequencing Products & Services Market Size, By Type, 2015-2022 (USD Million)
Table 81 RoW: Illumina NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 82 RoW: Thermo Fisher Scientific NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 83 RoW: Pacific Biosciences NGS Platforms Market Size, By Type, 2015-2022 (USD Million)
Table 84 RoW: NGS Bioinformatics Market Size, By Product & Service, 2015-2022 (USD Million)
Table 85 RoW: NGS Market Size, By Technology, 2015-2022 (USD Million)
Table 86 RoW: NGS Market Size, By Application, 2015-2022 (USD Million)
Table 87 RoW: NGS Market Size, By End User, 2015-2022 (USD Million)
Table 92 Top 5 Product Launches, Product Enhancements, and Service Launches 2016-2017 (January)
Table 93 Top 5 Agreements, Partnerships, Collaborations, and Contracts 2016-2017 (January)
Table 94 Top 5 Mergers and Acquisitions, 2015-2017 (January)
Table 95 Top Geographic Expansions, 2016
Table 96 Top 5 Other Developments, 2015-2017 (January)

List of Figures
Figure 1 Global Next-Generation Sequencing Market: Research Methodology Steps
Figure 2 Breakdown of Primary Interviews: By Company Type, Designation, and Region
Figure 3 NGS Market: Bottom-Up Approach
Figure 4 NGS Market: Top-Down Approach
Figure 5 NGS Market: Data Triangulation
Figure 6 Global NGS Market, By Application, 2017 vs 2022 (USD Million)
Figure 7 Global NGS Platforms Market, 2017 vs 2022
Figure 8 Global NGS Market, By End User, 2017 vs 2022 (USD Million)
Figure 9 Global NGS Market, By Region, 2016 (USD Million)
Figure 10 NGS Market to Register A High, Double-Digit Growth Rate in the Forecast Period (2017-2022)
Figure 11 Pre-Sequencing Products & Services Segment to Register the Highest CAGR Between 2017 & 2022
Figure 12 Diagnostics Application Will Continue to Dominate the NGS Market in 2022
Figure 13 Research Centers and Academic & Government Institutes to Account for the Largest Share of the NGS Market in 2017
Figure 14 Consumables Will Be the Dominant Product Segment in All Regions
Figure 15 NGS Market: Drivers, Restraints, Opportunities, and Challenges
Figure 16 Nanopore Sequencing to Register the Highest CAGR During 2017 to 2022
Figure 17 Diagnostics Application Segment Will Continue to Dominate the Global Next-Generation Sequencing Market in 2022 (USD Million)
Figure 18 Hospitals & Clinics to Register the Highest CAGR in the Forecast Period
Figure 19 Global NGS Market Overview
Figure 20 North America: NGS Market Snapshot
Figure 21 Europe: NGS Market Snapshot
Figure 22 Asia-Pacific: NGS Market Snapshot
Figure 23 RoW: NGS Market Snapshot
Figure 24 Leading Market Players Adopted Both Organic and Inorganic Growth Strategies Over the Last Three Years (2014 to January, 2017)
Figure 25 Global NGS Platform Market Share Analysis, By Key Player, 2016
Figure 26 Geographic Revenue Mix of the Top Four Market Players - (2016)
Figure 27 Illumina, Inc.: Company Snapshot (2016)
Figure 28 Thermo Fisher Scientific Inc.: Company Snapshot (2016)
Figure 29 Pacific Biosciences of California, Inc.: Company Snapshot (2015)
Figure 30 Qiagen N.V.: Company Snapshot (2016)
Figure 31 Perkinelmer, Inc.: Company Snapshot (2015)
Figure 32 Roche Holding AG: Company Snapshot (2016)
Figure 33 Agilent Technologies, Inc.: Company Snapshot (2016)
Figure 34 Macrogen, Inc.: Company Snapshot (2015)
Figure 35 Eurofins Scientific: Company Snapshot (2016)

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