

Next-generation Sequencing Services Market by Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequencing), Technology (Sequencing by Synthesis, Nanopore, SMRT), Application (Clinical Diagnosis, Biomarker Discovery), & End User - Forecast to 2028

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Abstracts

Global Next-generation Sequencing Services Market by Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequencing), Technology (Sequencing by Synthesis, Nanopore, SMRT), Application (Clinical Diagnosis, Biomarker Discovery), and End User - Forecast to 2028

The next-generation sequencing services market is expected to grow at a CAGR of 20.4% from 2021 to 2028 to reach \$14.1 billion by 2028.

Following a thorough secondary and primary research and in-depth analysis of the market scenario, the report discusses key industry drivers, restraints, challenges, and opportunities.

The growth of this market is mainly attributed to the reducing cost of NGS procedures, the development and approval of new targeted therapies, rising prevalence of cancer, partnerships between NGS service providers and pharmaceutical companies, high cost of sequencing infrastructure, and technological advancements in NGS. In addition, advancements in sequencing data analytics and the increasing applications of NGS in cancer and agri-genomics research are expected to offer significant growth opportunities for NGS service providers.

However, the availability of alternative technologies, lack of skilled professionals for sample preparation and analysis, and actionable mutations for precision medicine may

restrain the growth of the NGS services market. Moreover, regulatory & standardization concerns in diagnostic testing and the ethical issues & costs related to non-invasive prenatal genetic testing are major challenges for the growth of this market.

Based on type, the global NGS services market is segmented into targeted sequencing services, whole-genome sequencing services, RNA sequencing services, exome sequencing services, de novo sequencing services, ChIP sequencing services, methyl sequencing services, and other NGS services. In 2021, the targeted sequencing services segment is estimated to account for the largest share of the global NGS services market. The large share of this segment can be attributed to the relatively lower cost, faster turnaround time, and accurate, easy-to-interpret results of targeted sequencing in the study of disease-related genes.

Based on technology, the global NGS services market is segmented into sequencing by synthesis (SBS), ion semiconductor sequencing (IOS), single-molecule real-time sequencing (SMRT), nanopore sequencing, and other NGS technologies. In 2021, the sequencing by synthesis (SBS) segment is estimated to account for the largest share of the global NGS services market. This large share of this segment is attributed to its highest yield of error-free throughput, base call value above Q30, and higher accuracy in DNA sequencing compared to other sequencing technologies available in the market.

Based on application, the global NGS services market is segmented into biomarker discovery, diagnostics, drug discovery, agriculture & animal research, and other applications. In 2021, the diagnostics segment is estimated to account for the largest share of the global NGS services market. This segment's large share is mainly attributed to the significant use of NGS services in cancer diagnostics globally and improvements in NGS-based oncology and non-invasive prenatal tests (NIPT). Growing emphasis on utilizing NGS in cancer research fuels the growth of this market.

Based on end user, the global NGS services market is segmented into hospitals & clinics, pharmaceutical & biotechnology companies, academic & research institutes, and other end users. In 2021, the hospitals & clinics segment is estimated to account for the largest share of the global NGS services market. The largest share of this segment is attributed to factors such as high capital requirements for building in-house NGS capabilities in hospitals & clinics, the rising prevalence of cancer and other chronic diseases, the growing demand for advanced medical treatments, and the rising number of biomarker-based therapies.

An in-depth analysis of the geographical scenario of the next-generation sequencing

services market provides detailed qualitative and quantitative insights about the five major geographies (North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa) along with the coverage of major countries in each region. North America is expected to command the largest share of the global next-generation sequencing services market in 2021, followed by Europe and Asia-Pacific.

Key companies operating in the global next-generation sequencing services market are Illumina, Inc. (U.S.), QIAGEN N.V. (Netherlands), PerkinElmer, Inc. (U.S.), Eurofins Scientific S.E. (Luxembourg), Macrogen, Inc. (South Korea), LGC Limited (U.K.), GENEWIZ, Inc. (U.S.), Beijing Genomics Institute (BGI) (China), SciGenom Labs Pvt. Ltd (India), MedGenome Inc. (U.S.), DNA Link, Inc. (South Korea), OtoGenetics Corporation (U.S.), Novogene Co., Ltd. (China), CD Genomics (U.S.), Foundation Medicine, Inc. (U.S.), and SeqLL, Inc. (U.S.).

Scope of the Report

Global Next-generation Sequencing Services Market, by Type

Targeted Sequencing Services

RNA Sequencing Services

De Novo Sequencing Services

Exome Sequencing Services

Chip Sequencing Services

Whole-genome Sequencing

Methyl Sequencing Services

Other Services

Global Next-generation Sequencing Services Market, by Technology

Sequencing By Synthesis (SBS)

Ion Semiconductor Sequencing (IOS)

Single-molecule Real-time Sequencing (SMRT)

Nanopore Sequencing

Other Technologies

Global Next-generation Sequencing Services Market, by Application

Diagnostics

Drug Discovery

Biomarker Discovery

Agriculture & Animal Research

Other Applications

Global Next-generation Sequencing Services Market, by End User

Hospitals & Clinics

Pharmaceutical & Biotechnology Companies

Academics & Research Institutes

Other End Users

Global Next-generation Sequencing Services Market, by Geography

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Spain

Rest of Europe (RoE)

Asia-Pacific (APAC)

Japan

China

India

Rest of APAC (RoAPAC)

Latin America

Middle East & Africa

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
- 1.3. Currency
- 1.4. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Process
- 2.2. Data Collection & Validation
 - 2.2.1. Secondary Research
 - 2.2.2. Primary Research
- 2.3. Market Assessment
 - 2.3.1. Market Size Estimation
 - 2.3.1.1. Bottom-Up Approach
 - 2.3.1.2. Top-Down Approach
 - 2.3.1.3. Growth Forecast
 - 2.3.2. Market Share Analysis
- 2.4. Assumptions for This Study
- 2.5. Limitations for The Study

3. EXECUTIVE SUMMARY

4. MARKET INSIGHTS

- 4.1. Market Overview
- 4.2. Drivers
 - 4.2.1. Plummeting Costs of Sequencing Procedures
 - 4.2.2. Development and Approval of New Targeted Therapies
 - 4.2.3. Rising Prevalence of Cancer
 - 4.2.4. Partnerships Between NGS Service Providers and Pharmaceutical Companies
 - 4.2.5. High Cost of Sequencing Infrastructure
 - 4.2.6. Technological Advancements in NGS
- 4.3. Restraints
 - 4.3.1. Availability of Alternative Technologies
 - 4.3.2. Lack of Skilled Professionals for Sample Preparation and Analysis

- 4.3.3. Low Chances of Positive Actionable Mutations for Precision Medicine
- 4.4. Opportunities
 - 4.4.1. Increasing Applications in Cancer and Agri-Genomics Research
 - 4.4.2. Advancements in Sequencing Data Analytics
- 4.5. Challenges
 - 4.5.1. Regulatory & Standardization Concerns in Diagnostic Testing
 - 4.5.2. Installation of In-House NGS Facilities in Large Hospitals and Research Institutes
 - 4.5.3. Ethical Issues & Costs Related to Non-Invasive Prenatal Genetic Testing
- 4.6. The Impact of Covid-19 on The Global NGS Services Market

5. GLOBAL NEXT-GENERATION SEQUENCING SERVICES MARKET, BY TYPE

- 5.1. Introduction
- 5.2. Targeted Sequencing Services
- 5.3. RNA Sequencing Services
- 5.4. De Novo Sequencing Services
- 5.5. Exome Sequencing Services
- 5.6. Chip Sequencing Services
- 5.7. Methyl Sequencing Services
- 5.8. Whole-Genome Sequencing Services
- 5.9. Other NGS Services

6. GLOBAL NEXT-GENERATION SEQUENCING SERVICES MARKET, BY TECHNOLOGY

- 6.1. Introduction
- 6.2. Sequencing by Synthesis (SBS)
- 6.3. Ion Semiconductor Sequencing (IOS)
- 6.4. Single-Molecule Real-Time (SMRT) Sequencing
- 6.5. Nanopore Sequencing
- 6.6. Other NGS Technologies

7. GLOBAL NEXT-GENERATION SEQUENCING SERVICES MARKET, BY APPLICATION

- 7.1. Introduction
- 7.2. Diagnostics
- 7.3. Drug Discovery

- 7.4. Biomarker Discovery
- 7.5. Agriculture & Animal Research
- 7.6. Other Applications

8. GLOBAL NEXT-GENERATION SEQUENCING SERVICES MARKET, BY END USER

- 8.1. Introduction
- 8.2. Hospitals & Clinics
- 8.3. Pharmaceutical & Biotechnology Companies
- 8.4. Academics & Research Institutes
- 8.5. Other End Users

9. GLOBAL NGS SERVICES MARKET, BY GEOGRAPHY

- 9.1. Introduction
- 9.2. North America
 - 9.2.1. U.S.
 - 9.2.2. Canada
- 9.3. Europe
 - 9.3.1. Germany
 - 9.3.2. France
 - 9.3.3. U.K.
 - 9.3.4. Italy
 - 9.3.5. Spain
 - 9.3.6. Rest of Europe (RoE)
- 9.4. Asia-Pacific
 - 9.4.1. Japan
 - 9.4.2. China
 - 9.4.3. India
 - 9.4.4. Rest of Asia-Pacific (RoAPAC)
- 9.5. Latin America
- 9.6. Middle East & Africa

10. COMPETITIVE LANDSCAPE

- 10.1. Introduction
- 10.2. Key Growth Strategies
- 10.3. Competitive Benchmarking

10.4. Market Share Analysis (2020)

- 10.4.1. Eurofins Scientific S.E.
- 10.4.2. Illumina, Inc.
- 10.4.3. Perkinelmer, Inc.
- 10.4.4. GENEWIZ, Inc.
- 10.4.5. Foundation Medicine, Inc. (Subsidiary of F. Hoffmann-La Roche AG)

11. COMPANY PROFILES

11.1. Illumina, Inc.

- 11.1.1. Business Overview
- 11.1.2. Financial Overview
- 11.1.3. Service Portfolio
- 11.1.4. Strategic Developments

11.2. QIAGEN N.V.

- 11.2.1. Business Overview
- 11.2.2. Financial Overview
- 11.2.3. Service Portfolio

11.3. PerkinElmer, Inc.

- 11.3.1. Business Overview
- 11.3.2. Financial Overview
- 11.3.3. Service Portfolio

11.4. Eurofins Scientific S.E.

- 11.4.1. Business Overview
- 11.4.2. Financial Overview
- 11.4.3. Service Portfolio
- 11.4.4. Strategic Developments

11.5. MacroGen, Inc.

- 11.5.1. Company Overview
- 11.5.2. Financial Overview
- 11.5.3. Service Portfolio
- 11.5.4. Strategic Developments

11.6. LGC Limited

- 11.6.1. Business Overview
- 11.6.2. Financial Overview
- 11.6.3. Service Portfolio
- 11.6.4. Strategic Developments

11.7. GENEWIZ, Inc.

- 11.7.1. Business Overview

- 11.7.2. Financial Overview
- 11.7.3. Service Portfolio
- 11.7.4. Strategic Developments
- 11.8. Beijing Genomics Institute (BGI)
 - 11.8.1. Business Overview
 - 11.8.2. Service Portfolio
 - 11.8.3. Strategic Developments
- 11.9. Scigenom Labs Pvt., Ltd.
 - 11.9.1. Business Overview
 - 11.9.2. Service Portfolio
- 11.10. Medgenome Inc.
 - 11.10.1. Business Overview
 - 11.10.2. Service Portfolio
 - 11.10.3. Strategic Developments
- 11.11. DNA Link, Inc.
 - 11.11.1. Business Overview
 - 11.11.2. Service Portfolio
- 11.12. Ototogenetics Corporation
 - 11.12.1. Business Overview
 - 11.12.2. Service Portfolio
- 11.13. Novogene Co., Ltd.
 - 11.13.1. Business Overview
 - 11.13.2. Service Portfolio
 - 11.13.3. Strategic Developments
- 11.14. CD Genomics
 - 11.14.1. Business Overview
 - 11.14.2. Service Portfolio
 - 11.14.3. Strategic Developments
- 11.15. SeqLL Inc.
 - 11.15.1. Business Overview
 - 11.15.2. Financial Overview
 - 11.15.3. Service Portfolio
- 11.16. Foundation Medicine, Inc. (Subsidiary of F. Hoffmann-La Roche AG)
 - 11.16.1. Business Overview
 - 11.16.2. Financial Overview
 - 11.16.3. Service Portfolio
 - 11.16.4. Strategic Developments

12. APPENDIX

12.1. Questionnaire

12.2. Available Customization

List Of Tables

LIST OF TABLES

Table 1 NGS Services Market Drivers: Impact Analysis (2021–2028)

Table 2 Currently Available Targeted Therapies and Corresponding Biomarkers

Table 3 Estimated Number of New Cancer Cases, by Type (2020)

Table 4 NGS Services Market Restraints: Impact Analysis (2021–2028)

Table 5 Global NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 6 Global Targeted Sequencing Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 7 Global RNA Sequencing Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 8 Global De Novo Sequencing Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 9 Global Exome Sequencing Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 10 Global Chip Sequencing Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 11 Global Methyl Sequencing Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 12 Global Whole-Genome Sequencing Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 13 Global Other NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 14 Global NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 15 Global Sbs-based NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 16 Global Ios-based NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 17 Global Smart Technology-based NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 18 Global Nanopore Technology-based NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 19 Global Other Technologies-based NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 20 Global NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 21 Global NGS Services Market Size for Diagnostics, by Country/Region,

2019–2028 (USD Million)

Table 22 Global NGS Services Market Size for Drug Discovery, by Country/Region, 2019–2028 (USD Million)

Table 23 Tumor Markers in Different Cancer Types

Table 24 Global NGS Services Market Size for Biomarker Discovery, by Country/Region, 2019–2028 (USD Million)

Table 25 Global NGS Services Market Size for Agriculture & Animal Research, by Country/Region, 2019–2028 (USD Million)

Table 26 Global NGS Services Market Size for Other Applications, by Country/Region, 2019–2028 (USD Million)

Table 27 Global NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 28 Global NGS Services Market Size for Hospitals & Clinics, by Country/Region, 2019–2028 (USD Million)

Table 29 Global NGS Services Market Size for Pharmaceutical & Biotechnology Companies, by Country/Region, 2019–2028 (USD Million)

Table 30 Global NGS Services Market Size for Academic & Research Institutes, by Country/Region, 2019–2028 (USD Million)

Table 31 Global NGS Services Market Size for Other End Users, by Country/Region, 2019–2028 (USD Million)

Table 32 Global NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 33 North America: NGS Services Market Size, by Country, 2019–2028 (USD Million)

Table 34 North America: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 35 North America: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 36 North America: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 37 North America: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 38 U.S.: Key Macroindicators

Table 39 U.S.: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 40 U.S.: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 41 U.S.: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 42 U.S.: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 43 Canada: Key Macroindicators

Table 44 Canada: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 45 Canada: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 46 Canada: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 47 Canada: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 48 Europe: NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 49 Europe: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 50 Europe: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 51 Europe: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 52 Europe: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 53 Germany: Key Macroindicators

Table 54 Germany: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 55 Germany: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 56 Germany: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 57 Germany: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 58 France: Key Macroindicators

Table 59 France: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 60 France: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 61 France: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 62 France: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 63 U.K.: Key Macroindicators

Table 64 U.K.: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 65 U.K.: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 66 U.K.: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 67 U.K.: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 68 Italy: Key Macroindicators

Table 69 U.K.: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 70 Italy: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 71 Italy: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 72 Italy: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 73 Spain: Key Macroindicators

Table 74 Spain: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 75 Spain: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 76 Spain: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 77 Spain: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 78 Estimated Number of New Cancer Cases From 2020 To 2030

Table 79 Roe: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 80 Roe: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 81 Roe: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 82 Roe: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 83 Asia-Pacific: NGS Services Market Size, by Country/Region, 2019–2028 (USD Million)

Table 84 Asia-Pacific: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 85 Asia-Pacific: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 86 Asia-Pacific: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 87 Asia-Pacific: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 88 Japan: Key Macroindicators

Table 89 Japan: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 90 Japan: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 91 Japan: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 92 Japan: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 93 China: Key Macroindicators

Table 94 China: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 95 China: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 96 China: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 97 China: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 98 India: Key Macroindicators

Table 99 India: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 100 India: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 101 India: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 102 India: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 103 Estimated Number of New Cancer Cases From 2020 To 2030

Table 104 Roapac: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 105 Roapac: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 106 Roapac: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 107 Roapac: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 108 Latin America: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 109 Latin America: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 110 Latin America: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 111 Latin America: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 112 Middle East & Africa: NGS Services Market Size, by Type, 2019–2028 (USD Million)

Table 113 Middle East & Africa: NGS Services Market Size, by Technology, 2019–2028 (USD Million)

Table 114 Middle East & Africa: NGS Services Market Size, by Application, 2019–2028 (USD Million)

Table 115 Middle East & Africa: NGS Services Market Size, by End User, 2019–2028 (USD Million)

Table 116 Recent Developments, by Company, 2018—2021

List Of Figures

LIST OF FIGURES

- Figure 1 Research Process
- Figure 2 Key Secondary Sources
- Figure 3 Primary Research Techniques
- Figure 4 Key Executives Interviewed
- Figure 5 Breakdown of Primary Interviews (Supply-Side & Demand-Side)
- Figure 6 Market Size Estimation
- Figure 7 Global Next-generation Sequencing Services Market Size, by Application, 2021 Vs. 2028 (USD Million)
- Figure 8 Global Next-generation Sequencing Services Market Size, by Type, 2021 Vs. 2028 (USD Million)
- Figure 9 Global Next-generation Sequencing Services Market Size, by Technology, 2021 Vs. 2028 (USD Million)
- Figure 10 Global Next-generation Sequencing Services Market Size, by End User, 2021 Vs. 2028 (USD Million)
- Figure 11 Next-generation Sequencing Services Market, by Geography
- Figure 12 Market Dynamics
- Figure 13 Cost of Genome Sequencing: 2010–2020
- Figure 14 Global NGS Services Market Size, by Type, 2021–2028 (USD Million)
- Figure 15 Number of Manuscripts Featuring RNA Sequencing Per Year on Pubmed
- Figure 16 Global NGS Services Market Size, by Technology, 2021–2028 (USD Million)
- Figure 17 Global NGS Services Market Size, by Application, 2021–2028 (USD Million)
- Figure 18 New Molecular Entity (NME) Approvals Per Year
- Figure 19 Global NGS Services Market Size, by End User, 2021–2028 (USD Million)
- Figure 20 Global Biopharmaceutical R&D Spending, 2014–2020 (USD Billion)
- Figure 21 Global NGS Services Market Size, by Geography, 2021–2028 (USD Million)
- Figure 22 North America: NGS Services Market Snapshot
- Figure 23 Pharmaceutical R&D Expenditure in the U.S.
- Figure 24 Pharmaceutical Industry Research and Development in Europe (2019)
- Figure 25 Europe: NGS Services Market Snapshot
- Figure 26 Number of Biotechnology Firms in Italy, 2008-2019
- Figure 27 R&D Spending by Pharmaceutical Industry in Spain, 2015-2019 (USD Million)
- Figure 28 Pharmaceutical R&D Spending in Roe (2019)
- Figure 29 Asia-Pacific: NGS Services Market Snapshot
- Figure 30 Key Growth Strategies Adopted by Leading Players, 2018—2021
- Figure 31 NGS Services: Competitive Benchmarking (Based on Service Type)

Figure 32 NGS Services: Competitive Benchmarking (Based on Geography)

Figure 33 Market Share Analysis: NGS Services Industry, 2020

Figure 34 Illumina, Inc.: Financial Overview, 2020

Figure 35 Qiagen N.V.: Financial Overview, 2020

Figure 36 Perkinelmer, Inc.: Financial Overview, 2020

Figure 37 Eurofins Scientific S.E.: Financial Overview, 2020

Figure 38 MacroGen, Inc.: Financial Overview, 2020

Figure 39 LGC Limited: Financial Overview, 2020

Figure 40 Brooks Automation, Inc.: Financial Overview, 2020

Figure 41 SeqLL Inc.: Financial Overview, 2020

Figure 42 F. Hoffmann-La Roche AG.: Financial Overview, 2020

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