

Next Generation Sequencing Services Market by Service Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequencing), Technology (Sequencing by Synthesis, Nanopore, SMRT), Application (Clinical Diagnosis, Biomarker Discovery), and End User - Global Forecast to 2025

<https://marketpublishers.com/r/NC7A4C04C578EN.html>

Date: October 2019

Pages: 193

Price: US\$ 4,375.00 (Single User License)

ID: NC7A4C04C578EN

Abstracts

Next Generation Sequencing Services Market by Service Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequencing) Technology (Sequencing by Synthesis, Nanopore, SMRT) Application (Clinical Diagnosis, Biomarker Discovery) & by End User - Forecast to 2025

The global next generation sequencing services market is expected to grow at a CAGR of 20.5% from 2019 to reach \$13.1 billion by 2025. The growth in NGS services market is mainly attributed to the plummeting cost of sequencing, technological advancement in NGS services, and increase in genome mapping programs. In addition, increasing applications of NGS in cancer and agrigenomics research will further provide significant growth opportunities for the various stakeholders in this market. However, lack of skilled professionals for efficient NGS sample preparation and analysis, and high cost of sequencing infrastructure - are likely to hinder the market growth.

The overall NGS services market is mainly segmented by service type (targeted sequencing, RNA sequencing, exome sequencing, De Novosequencing, ChIP-sequencing, whole genome sequencing, methyl sequencing, and other services), technology (sequencing by synthesis, ion semiconductor, single molecule real time sequencing, nanopore sequencing, and true single molecule sequencing), application (diagnostics, drug discovery, biomarker discovery, agriculture and animal research, and

other applications), end user (hospitals & clinics, pharmaceutical & biotechnology industry, academic & research institutes, and other end users), and geography. The study also evaluates industry competitors and analyzes the market at regional and country level.

On the basis of service type, targeted sequencing segment is estimated to command the largest share of the overall NGS services market in 2019. The high share of targeted sequencing is mainly attributed to its ability to isolate and sequence fragment of genes or region. The increasing adoption of targeted sequencing has also led to its use in biomarker discovery, which is used to identify the clinically suitable targets in the field of translational research.

On the basis of technology, sequencing by synthesis commanded the largest share of the overall NGS services market in 2019. The large share of this segment is attributed to its high accuracy in DNA sequencing, highest yield of error-free throughput, and base call value of above Q30. However, Single Molecule Real Time (SMRT) sequencing technology is expected to grow at the fastest CAGR during the forecast period, owing to its rising adoption for understanding the kinetic information in various areas of research, including genomics, transcriptomics, and epigenetics.

On the basis of application, the diagnostics segment is estimated to command the largest share of the overall NGS services market in 2019. The large share of the diagnostics segment is primarily attributed to the significant use of NGS services for the treatment of cancer patients, globally; and improvement in NGS based oncology and Non-Invasive Prenatal Tests (NIPT).

An in-depth analysis of the geographical scenario of the NGS services market provides detailed qualitative and quantitative insights about the five major geographies (North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa) along with the coverage of major countries in each region. North America commanded the largest share of the global NGS services market in 2018, followed by Europe, Asia-Pacific, Latin America, and Middle East & Africa.

The key players operating in the global NGS services market are Illumina, Inc. (U.S.), Qiagen N.V. (The Netherlands), PerkinElmer, Inc. (U.S.), Eurofins Scientific SE (Luxembourg), Macrogen, Inc. (South Korea), Genotypic Technology Pvt. Ltd. (India), GENEWIZ, Inc. (U.S.), Beijing Genomics Institute (BGI) (China), SciGenom Labs Pvt. Ltd. (India), MedGenome (U.S.), DNA Link, Inc. (South Korea), Otogenetics Corporation (U.S.), Novogene Corporation (China), LGC Limited (U.K.), CD Genomics (U.S.), and

SeqLL, LLC (U.S.).

SCOPE OF THE REPORT:

Next Generation Sequencing Services Market, by Service Type

Targeted Sequencing

RNA Sequencing

Exome Sequencing

De Novo Sequencing

ChIP-Sequencing

Methyl Sequencing

Whole Genome Sequencing

Other Services

Next Generation Sequencing Services Market, by Technology

Sequencing by Synthesis (SBS)

Ion Semiconductor Sequencing (IOS)

Single Molecule Real Time Sequencing (SMRT)

Nanopore Sequencing

True Single Molecule Sequencing (tSMS)

Next Generation Sequencing Services Market, by Application

Diagnostics

Drug Discovery

Biomarker Discovery

Agriculture & Animal Research

Other Applications

Next Generation Sequencing Services Market, by End User

Hospitals & Clinics

Pharmaceuticals & Biotechnology Industry

Academics & Research Institutes

Other End Users

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 Asia-Pacific (RoAPAC)

Latin America

Middle East & Africa

Contents

1. INTRODUCTION

- 1.1. Market Ecosystem
- 1.2. Currency and Limitations
 - 1.2.1. Currency
 - 1.2.2. Limitations
- 1.3. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Process
 - 2.1.1. Secondary Research
 - 2.1.2. Primary Research
 - 2.1.3. Market Size Estimation

3. EXECUTIVE SUMMARY

4. MARKET INSIGHTS

- 4.1. Introduction
- 4.2. Drivers
 - 4.2.1. Plummeting Cost of Sequencing Procedures
 - 4.2.2. Technological Advancements in NGS Services
 - 4.2.3. Increase in Genome Mapping Programs
 - 4.2.4. High Cost of Sequencing Infrastructure
- 4.3. Restraints
 - 4.3.1. Lack of Skilled Professionals for Efficient NGS Sample Preparation and Analysis
- 4.4. Opportunities
 - 4.4.1. Increasing Applications in Cancer and Agrigenomics Research
 - 4.4.2. Analysis of Complex Sequencing Data
- 4.5. Challenges
 - 4.5.1. Accuracy & Standardization Concerns in Diagnostic Testing
 - 4.5.2. Installation of In-House Sequencing Facilities in Large Hospitals and Academic Universities
 - 4.5.3. Ethical Issues Related to Non-Invasive Prenatal Testing

5. NEXT GENERATION SEQUENCING SERVICES MARKET, BY SERVICE TYPE

Next Generation Sequencing Services Market by Service Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequenci...

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

6. 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 Sequencing (SMRT)
- 6.5. Nanopore Sequencing
- 6.6. True Single Molecule Sequencing (tSMS)

7. 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. 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. NEXT GENERATION SEQUENCING 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
- 9.4. Asia Pacific
 - 9.4.1. Japan
 - 9.4.2. China
 - 9.4.3. India
 - 9.4.4. Rest of Asia-Pacific
- 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 (2018)
 - 10.4.1. Eurofins Scientific SE
 - 10.4.2. Illumina, Inc.
 - 10.4.3. PerkinElmer, Inc.
 - 10.4.4. Qiagen N.V.

11. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, SERVICE PORTFOLIO, STRATEGIC DEVELOPMENTS)

- 11.1. Illumina, Inc.
- 11.2. Qiagen N.V.
- 11.3. PerkinElmer, Inc.
- 11.4. Eurofins Scientific SE
- 11.5. Macrogen, Inc.
- 11.6. LGC Limited

- 11.7. Genotypic Technology Pvt. Ltd.
- 11.8. GENEWIZ, Inc.
- 11.9. Beijing Genomics Institute (BGI)
- 11.10. SciGenom Labs Pvt. Ltd
- 11.11. MedGenome Inc.
- 11.12. DNA Link, Inc.
- 11.13. Otogenetics Corporation
- 11.14. Novogene Corporation
- 11.15. CD Genomics
- 11.16. SeqLL Inc.

12. APPENDIX

- 12.1. Questionnaire
- 12.2. Available Customization

List Of Tables

LIST OF TABLES

Table 1 Currency Conversion Rate, 2016-2018

Table 2 Reduction in Cost of Genome Sequencing: 2008-2018

Table 3 Technological Advancements in NGS Services Market

Table 4 Global NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 5 Global Targeted Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 6 Global RNA Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 7 Global Exome Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 8 Global De Novo Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 9 Global ChIP Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 10 Global Whole Genome Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 11 Global Methyl Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 12 Global Other Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 13 Global NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 14 Global Sequencing by Synthesis Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 15 Global Ion Semiconductor Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 16 Global Single Molecule Real Time Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 17 Global Nanopore Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 18 Global True Single Molecule Sequencing Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 19 Global NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 20 Global NGS Services Market Size for Diagnostics, by Country/Region, 2017-2025 (\$Million)

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

2017-2025 (\$Million)

Table 22 Global NGS Services Market Size for Biomarker Discovery, by Country/Region, 2017-2025 (\$Million)

Table 23 Global NGS Services Market Size for Agriculture and Animal Research, by Country/Region, 2017-2025 (\$Million)

Table 24 Global NGS Services Market Size for Other Applications, by Country/Region, 2017-2025 (\$Million)

Table 25 Global NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 26 Global NGS Services Market Size for Hospitals & Clinics, by Country/Region, 2017-2025 (\$Million)

Table 27 Global NGS Services Market Size for Pharmaceuticals & Biotechnology Companies, by Country/Region, 2017-2025 (\$Million)

Table 28 Global NGS Services Market Size for Academic & Research Institutes, by Country/Region, 2017-2025 (\$Million)

Table 29 Global NGS Services Market Size for Other End Users, by Country/Region, 2017-2025 (\$Million)

Table 30 Global NGS Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 31 North America: NGS Services Market Size, by Country, 2017-2025 (\$Million)

Table 32 North America: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 33 North America: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 34 North America: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 35 North America: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 36 U.S.: Key Macroindicators

Table 37 U.S.: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 38 U.S.: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 39 U.S.: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 40 U.S.: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 41 Canada: Key Macroindicators

Table 42 Canada: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 43 Canada: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 44 Canada: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 45 Canada: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 46 Europe: NGS Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 47 Europe: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 48 Europe: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 49 Europe: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 50 Europe: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 51 Germany: Key Macroindicators

Table 52 Germany: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 53 Germany: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 54 Germany: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 55 Germany: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 56 France: Key Macroindicators

Table 57 France: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 58 France: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 59 France: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 60 France: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 61 U.K.: Key Macroindicators

Table 62 U.K.: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 63 U.K.: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 64 U.K.: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 65 U.K.: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 66 Italy: Key Macroindicators

Table 67 Italy: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 68 Italy: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 69 Italy: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 70 Italy: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 71 Spain: Key Macroindicators

Table 72 Spain: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 73 Spain: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 74 Spain: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 75 Spain: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 76 RoE: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 77 RoE: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 78 RoE: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 79 RoE: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 80 APAC: NGS Services Market Size, by Country/Region, 2017-2025 (\$Million)

Table 81 APAC: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 82 APAC: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 83 APAC: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 84 APAC: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 85 Japan: Key Macroindicators

Table 86 Japan: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 87 Japan: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 88 Japan: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 89 Japan: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 90 China: Key Macroindicators

Table 91 China: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 92 China: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 93 China: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 94 China: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 95 India: Key Macroindicators

Table 96 India: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 97 India: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 98 India: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 99 India: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 100 RoAPAC: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 101 RoAPAC: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 102 RoAPAC: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 103 RoAPAC: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 104 Latin America: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 105 Latin America: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 106 Latin America: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 107 Latin America: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 108 Middle East & Africa: NGS Services Market Size, by Service Type, 2017-2025 (\$Million)

Table 109 Middle East & Africa: NGS Services Market Size, by Technology, 2017-2025 (\$Million)

Table 110 Middle East & Africa: NGS Services Market Size, by Application, 2017-2025 (\$Million)

Table 111 Middle East & Africa: NGS Services Market Size, by End User, 2017-2025 (\$Million)

Table 112 Recent Developments, by Company, 2016-2019

List Of Figures

LIST OF FIGURES

- Figure 1 Research Process
- Figure 2 Key Executives Interviewed
- Figure 3 Primary Research Techniques
- Figure 4 Market Size Estimation
- Figure 5 Key Insights
- Figure 6 Meticulous Research Estimates: Targeted Sequencing Vs. Whole Genome Sequencing
- Figure 7 Meticulous Research Estimates: Sequencing by Synthesis Vs. Single Molecule Real Time Sequencing
- Figure 8 Meticulous Research Estimates: Diagnostics Vs. Biomarker Discovery
- Figure 9 Hospitals & Clinics Expected to Dominate the Global NGS Services Market, by End User (2019-2025)
- Figure 10 NGS Services Market, by Region
- Figure 11 Market Dynamics
- Figure 12 Total Number of Sequences in the GenomeTrakr Database
- Figure 13 Global NGS Services Market Size, by Service Type, 2019-2025 (\$Million)
- Figure 14 Funding for Targeted Sequencing Services
- Figure 15 Global NGS Services Market Size, by Technology, 2019-2025 (\$Million)
- Figure 16 Global NGS Services Market Size, by Application, 2019-2025 (\$Million)
- Figure 17 Global NGS Services Market Size, by End User, 2019-2025 (\$Million)
- Figure 18 Global Pharmaceutical R&D Spending, 2013-2017
- Figure 19 Global NGS Services Market Size, by Geography, 2019-2025 (\$Million)
- Figure 20 Number of Biotechnology Firms in Italy, 2005-2018
- Figure 21 R&D Spending by Pharmaceutical Industry in Spain, 2008-2016
- Figure 22 Key Growth Strategies Adopted by Leading Players -2016-2019
- Figure 23 NGS Services: Competitive Benchmarking
- Figure 24 Market Share Analysis: Next Generation Sequencing Services Industry, 2018
- Figure 25 Illumina, Inc.: Financial Overview (2016-2018)
- Figure 26 Qiagen N.V.: Financial Overview (2016-2018)
- Figure 27 PerkinElmer, Inc.: Financial Overview (2016-2018)
- Figure 28 Eurofins Scientific SE: Financial Overview (2016-2018)
- Figure 29 Macrogen, Inc.: Financial Overview (2016-2018)
- Figure 30 LGC Limited: Financial Overview (2017-2018)

I would like to order

Product name: Next Generation Sequencing Services Market by Service Type (Targeted Sequencing, Exome, RNA-Seq, ChIP Sequencing), Technology (Sequencing by Synthesis, Nanopore, SMRT), Application (Clinical Diagnosis, Biomarker Discovery), and End User - Global Forecast to 2025

Product link: <https://marketpublishers.com/r/NC7A4C04C578EN.html>

Price: US\$ 4,375.00 (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/NC7A4C04C578EN.html>