

# Global Next-Generation Sequencing (NGS) Market 2018-2024

<https://marketpublishers.com/r/G3238D905FEEN.html>

Date: June 2018

Pages: 103

Price: US\$ 2,750.00 (Single User License)

ID: G3238D905FEEN

## Abstracts

Global Next-generation sequencing Market – Drivers, Opportunities, Trends, and Forecasts: 2018–2024

Overview: Next-generation sequencing (NGS) is the massively parallel sequencing technology that has revolutionized the biological sciences. With its ultra-high throughput, scalability, and speed, NGS enables researchers to perform a wide variety of applications and study biological systems at a level never before possible. Illumina, Pacific Biosciences of California, Thermo Fisher scientific and Oxford Nanopore technology offers next-generation sequencing instruments based on different technologies such as Reversible terminator sequencing, Sequencing by ligation, Single-molecule, real-time sequencing (SMRT), ion semiconductor sequencing technology and Nanopore sequencing technology respectively. Wide range of diagnostic applications, continuous technology advancements are making it more efficient and user-friendly, but the complications associated with data storage and lack of skilled professional are some of the factors which may hamper growth to an extent.

Market Analysis: The “Global Next-Generation Sequencing market” is estimated to witness a CAGR of 18.6% during the forecast period 2018–2024. The global market is analyzed based on five segments – Technology, Products, Application, End-users and regions.

Regional Analysis: The regions covered in the report are the North America, Europe, Asia Pacific, and Rest of the World (ROW). North America is the major shareholder in the global next-generation sequencing market, followed by Europe. Asia-Pacific region is expected to grow at high CAGR during the forecasted period due to increasing funding for healthcare research, growing patient pool, and increasing healthcare

expenditure. The markets in emerging countries such as, India, China and Brazil are expected to grow at a rapid pace for next five years.

**Technology Analysis:** The next-generation sequencing market by technology is segmented into reversible terminator sequencing, ion semiconductor sequencing, sequencing by ligation, single molecule real-time sequencing, nanopore sequencing and others. Reversible terminator sequencing occupied a major market share in 2017 and is expected to remain same during the forecasted period.

**Product Analysis:** The market by product type is segmented into instruments, consumables and reagents and services. The services segment of the NGS market includes data analysis services and sequencing services. Among various application, consumables and reagents occupied the largest share in 2017, due to increased usage and need of consumables throughout the sample preparation, library construction, and various other pre-requisite steps of next-generation sequencing.

**Application Analysis:** The market by application is segmented into diagnostics, biomarker discovery, drug discovery, agriculture and animal research and others. Diagnostics includes prenatal testing, cancer diagnostics, genetic screening, pre-implantation, HLA typing and various other clinical diagnostics applications. The diagnostics application occupied a major share in 2017, due to increasing usage of next-generation sequencing for disease diagnosis.

**End-Users Analysis:** The market by end-users is segmented into academic and research institutes, hospitals and clinics, biotech and pharma companies and others. Among various end-users of the NGS market, academic and research institutes occupied a major share in 2017.

**Key Players:** Illumina, Inc., Thermo Fisher Scientific, Inc., Pacific Biosciences of California, Oxford Nanopore Technologies Limited, Beijing Genomics Institute, Agilent Technologies, Inc., Qiagen N.V., Eurofins Scientific, F. Hoffmann-La Roche, DNASTAR, Inc., Biomatters Limited and other predominate and niche players.

**Competitive Analysis:** Currently the next-generation sequencing market is consolidated with few key companies due to the involvement of complicated technologies and the requirement of high capital investment. Sequencing based test may soon be regarded as the gold standard in the field of molecular diagnostics. The increase in the applications of NGS has made many biotechnological firms and diagnostic laboratories to invest heavily in this field by launching new products or acquiring other smaller firms

or by collaboration. For instance, in August 2017, US based Illumina and Telegraph Hill Partners launched Verogen, Inc. to drive adoption of NGS in the global forensic genomics Market. In February 2018, Twist Bioscience entered the NGS sample prep market with the launch of its first target enrichment products. In March 2017, MedGenome launched NGS based liquid biopsy blood test “Oncotrack” for the diagnosis of cancer in India.

**Benefits:** The report provides complete details about the usage and adoption rate of Next-generation Sequencing in various therapeutic verticals and regions. With that, key stakeholders can know about the major trends, drivers, investments, and vertical player’s initiatives. Moreover, the report provides details about the major challenges that are going to impact on the market growth. Additionally, the report gives the complete details about the key business opportunities to key stakeholders to expand their business and capture the revenue in the specific verticals to analyze before investing or expanding the business in this market.

## Contents

### **1 INDUSTRY OUTLOOK**

- 1.1 Market Overview
- 1.2 Total addressable market

### **2 REPORT OUTLINE**

- 2.1 Report Scope
- 2.2 Report Summary
- 2.3 Research Methodology
- 2.4 Report Assumptions

### **3 MARKET SNAPSHOT**

- 3.1 Market Definition – Infoholic Research
- 3.2 Advantages of next-generation sequencing
- 3.3 Segmented Addressable Market (SAM)
- 3.4 Trends of the next-generation sequencing market
- 3.5 Related Markets
  - 3.5.1 Polymerase chain reaction (PCR)
  - 3.5.2 In-situ Hybridization
  - 3.5.3 Microarray

### **4 MARKET OUTLOOK**

- 4.1 Market segmentation
- 4.2 PEST Analysis
- 4.3 Porter 5(Five) Forces

### **5 MARKET CHARACTERISTICS**

- 5.1 DRO – Global Next-generation sequencing Market Dynamics
  - 5.1.1 Drivers
    - 5.1.1.1 Usage of sequencing in wide range of diagnostic application
    - 5.1.1.2 High speed, accuracy and reduced sequencing cost
  - 5.1.2 Opportunities
    - 5.1.2.1 Emerging applications of next-generation sequencing

- 5.1.2.2 Evolution of personalized medicine
- 5.1.3 Restraints
  - 5.1.3.1 Complications associated with NGS data storage
  - 5.1.3.2 Lack of skilled professional
- 5.2 DRO – Impact Analysis
- 5.3 Key Stakeholders

## **6 TECHNOLOGY: MARKET SIZE & ANALYSIS**

- 6.1 Overview
- 6.2 Reversible terminator sequencing
- 6.3 Ion semiconductor sequencing
- 6.4 Sequencing by ligation
- 6.5 Single molecule real-time (SMRT) sequencing
- 6.6 Nanopore sequencing
- 6.7 Others

## **7 PRODUCT: MARKET SIZE & ANALYSIS**

- 7.1 Overview
- 7.2 Instruments
- 7.3 Consumables and reagents
- 7.4 Services

## **8 APPLICATIONS: MARKET SIZE & ANALYSIS**

- 8.1 Overview
- 8.2 Diagnostics
- 8.3 Biomarker discovery
- 8.4 Drug discovery
- 8.5 Agriculture and animal research
- 8.6 Other application

## **9 END-USER: MARKET SIZE & ANALYSIS**

- 9.1 Overview
- 9.2 Hospital and reference laboratories
- 9.3 Academic and research institutions
- 9.4 Biotech and pharma companies

## 9.5 Others

## **10 REGIONS: MARKET SIZE AND ANALYSIS**

### 10.1 Overview

### 10.2 North America

### 10.3 Europe

### 10.4 Asia Pacific

### 10.5 Rest of the World

## **11 COMPETITIVE LANDSCAPE**

### 11.1 Overview

## **12 VENDOR PROFILES**

### 12.1 Illumina, Inc

#### 12.1.1 Overview

#### 12.1.2 Illumina, Inc.: Recent Developments

#### 12.1.3 Business Units

#### 12.1.4 Geographic Revenue

#### 12.1.5 Business Focus

#### 12.1.6 SWOT Analysis

#### 12.1.7 Business Strategies

### 12.2 Thermo Fisher Scientific Inc

#### 12.2.1 Overview

#### 12.2.2 Thermo Fisher Scientific Inc.: Recent Developments

#### 12.2.3 Business Units

#### 12.2.4 Geographic Presence

#### 12.2.5 Business Focus

#### 12.2.6 SWOT Analysis

#### 12.2.7 Business Strategies

### 12.3 Pacific Biosciences of California, Inc

#### 12.3.1 Overview

#### 12.3.2 Geographic Presence

#### 12.3.3 Business Focus

#### 12.3.4 SWOT Analysis

#### 12.3.5 Business Strategies

### 12.4 Oxford Nanopore Technologies Ltd

- 12.4.1 Overview
- 12.4.2 Business Focus
- 12.4.3 SWOT Analysis
- 12.4.4 Business Strategies
- 12.5 Beijing Genomics Institute
  - 12.5.1 Overview
  - 12.5.2 Business Focus
  - 12.5.3 SWOT Analysis
  - 12.5.4 Business Strategies

## **13 COMPANIES TO WATCH FOR**

- 13.1 DNASTAR, Inc.,
  - 13.1.1 Overview
- 13.2 Agilent Technologies, Inc
  - 13.2.1 Overview
- 13.3 Qiagen N.V
  - 13.3.1 Overview
- 13.4 Eurofins Scientific
  - 13.4.1 Overview
- 13.5 Biomatters Limited
  - 13.5.1 Overview
- 13.6 F .Hoffmann-La Roche
  - 13.6.1 Overview

Annexure

Acronyms

Table 1 GLOBAL NEXT-GENERATION SEQUENCING MARKET BY APPLICATION, 2017–2024 (\$MILLION)

Table 2 GLOBAL NEXT-GENERATION SEQUENCING MARKET REVENUE BY REGIONS, 2017–2024 (\$MILLION)

Table 3 OTHER PROMINENT VENDORS OF NEXT-GENERATION SEQUENCING MARKET

Table 4 ILLUMINA, INC.: OFFERINGS

Table 5 THERMO FISHER SCIENTIFIC INC.: PRODUCT OFFERINGS

Table 6 PACIFIC BIOSCIENCES OF CALIFORNIA, INC.: OFFERINGS

Table 7 PACIFIC BIOSCIENCES OF CALIFORNIA, INC: RECENT DEVELOPMENTS

Table 8 OXFORD NANOPORE TECHNOLOGIES LTD: OFFERINGS

Table 9 OXFORD NANOPORE TECHNOLOGIES LTD: RECENT DEVELOPMENTS

Table 10 BEIJING GENOMICS INSTITUTE: OFFERINGS

Table 11 BEIJING GENOMICS INSTITUTE: RECENT DEVELOPMENTS

Table 12 DNASTAR, INC.: SNAPSHOT

Table 13 DNASTAR, INC.: RECENT DEVELOPMENTS

Table 14 AGILENT TECHNOLOGIES, INC.: SNAPSHOT

Table 15 AGILENT TECHNOLOGIES, INC.: RECENT DEVELOPMENTS

Table 16 QIAGEN N.V.: SNAPSHOT

Table 17 QIAGEN N.V.: RECENT DEVELOPMENTS

Table 18 EUROFINS SCIENTIFIC: SNAPSHOT

Table 19 EUROFIN SCIENTIFIC: RECENT DEVELOPMENTS

Table 20 BIOMATTERS LIMITED: SNAPSHOT

Table 21 BIOMATTERS LTD: RECENT DEVELOPMENTS

Table 22 F .HOFFMANN-LA ROCHE: SNAPSHOT

Table 23 F .HOFFMANN-LA ROCHE: RECENT DEVELOPMENTS



## List Of Charts

### LIST OF CHARTS

Chart 1 RESEARCH METHODOLOGY OF GLOBAL NEXT-GENERATION SEQUENCING MARKET

Chart 2 GLOBAL NEXT-GENERATION SEQUENCING MARKET REVENUE, 2017–2024 (\$MILLION)

Chart 3 SEGMENTATION OF GLOBAL NEXT-GENERATION SEQUENCING MARKET

Chart 4 PEST ANALYSIS OF GLOBAL NEXT-GENERATION SEQUENCING MARKET

Chart 5 PORTER 5 FORCES ON GLOBAL NEXT-GENERATION SEQUENCING MARKET

Chart 6 DRO – IMPACT ANALYSIS OF GLOBAL NEXT-GENERATION SEQUENCING MARKET

Chart 7 KEY STAKEHOLDERS

Chart 8 GLOBAL NEXT-GENERATION SEQUENCING BY TECHNOLOGY SEGMENTATION, 2017 (%)

Chart 9 GLOBAL NEXT-GENERATION SEQUENCING BY PRODUCT SEGMENTATION, 2017 (%)

Chart 10 GLOBAL NEXT-GENERATION MARKET BY APPLICATION SEGMENTATION, 2017 (%)

Chart 11 GLOBAL NEXT-GENERATION MARKET BY APPLICATION SEGMENTATION, 2024 (%)

Chart 12 GLOBAL DIAGNOSTICS MARKET REVENUE FORECAST, 2017–2024 (\$MILLION)

Chart 13 GLOBAL BIOMARKER DISCOVERY MARKET REVENUE FORECAST, 2017–2024 (\$MILLION)

Chart 14 GLOBAL DRUG DISCOVERY MARKET REVENUE FORECAST, 2017–2024 (\$MILLION)

Chart 15 GLOBAL AGRICULTURE AND ANIMAL RESEARCH MARKET REVENUE FORECAST, 2017–2024 (\$MILLION)

Chart 16 GLOBAL OTHERS MARKET REVENUE FORECAST, 2017–2024 (\$MILLION)

Chart 17 GLOBAL NEXT-GENERATION SEQUENCING BY END-USERS SEGMENTATION, 2017 (%)

Chart 18 GLOBAL NEXT-GENERATION SEQUENCING MARKET BY GEOGRAPHICAL SEGMENTATION, 2017 (%)

Chart 19 NEXT-GENERATION SEQUENCING MARKET REVENUE IN NORTH AMERICA, 2017–2024 (\$MILLION)

Chart 20 NEXT-GENERATION SEQUENCING MARKET REVENUE IN EUROPE,

2017–2024 (\$MILLION)

Chart 21 NEXT-GENERATION SEQUENCING MARKET REVENUE IN ASIA PACIFIC, 2017–2024 (\$MILLION)

Chart 22 NEXT-GENERATION SEQUENCING MARKET REVENUE IN REST OF THE WORLD, 2017–2024 (\$MILLION)

Chart 23 ILLUMINA, INC.: OVERVIEW SNAPSHOT

Chart 24 ILLUMINA, INC.: BUSINESS UNITS

Chart 25 ILLUMINA, INC.: GEOGRAPHIC REVENUE

Chart 26 ILLUMINA, INC.: SWOT ANALYSIS

Chart 27 THERMO FISHER SCIENTIFIC INC.: OVERVIEW SNAPSHOT

Chart 28 THERMO FISHER SCIENTIFIC INC.: BUSINESS UNITS REVENUE

Chart 29 THERMO FISHER SCIENTIFIC INC.: GEOGRAPHICAL PRESENCE

Chart 30 THERMO FISHER SCIENTIFIC INC.: SWOT ANALYSIS

Chart 31 PACIFIC BIOSCIENCES OF CALIFORNIA, INC.: OVERVIEW SNAPSHOT

Chart 32 PACIFIC BIOSCIENCES OF CALIFORNIA, INC.: GEOGRAPHIC PRESENCE

Chart 33 PACIFIC BIOSCIENCES OF CALIFORNIA, INC.: SWOT ANALYSIS

Chart 34 OXFORD NANOPORE TECHNOLOGIES LTD: SWOT ANALYSIS

Chart 35 BEIJING GENOMICS INSTITUTE: SWOT ANALYSIS

## I would like to order

Product name: Global Next-Generation Sequencing (NGS) Market 2018-2024

Product link: <https://marketpublishers.com/r/G3238D905FEEN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G3238D905FEEN.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