

# Global Long-Read Sequencing Market: Focus on Products and Services, Technology, Application, End User, Country Data (17 Countries), and Competitive Landscape - Analysis and Forecast, 2021-2030

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### **Abstracts**

Market Report Coverage - Long-Read Sequencing

Market Segmentation

Products (Systems, Kits and Assays, Software) and Services

Technology (Single-Molecule Real-Time (SMRT) Sequencing, Nanopore Sequencing, Synthetic Long-Read Sequencing, and Others)

Application (Oncology, Infectious Diseases, Rare Diseases, Genetic Disorders, Metabolic Disorders, and Translational Research)

End User (Academic and Research Institutions, Pharma and Biotech Companies, Clinical Laboratories, Hospitals and Clinics, and Other End Users)

### Regional Segmentation

North America: U.S., Canada

Europe: Germany, France, Italy, U.K., Spain, Netherland, Russia and Rest-of-

the-Europe



Asia-Pacific: Japan, China, India, Australia, South Korea, Singapore, and Rest-of-APAC

Latin America: Brazil, Mexico, Rest-of-Latin America

Rest-of-the-World (RoW)

### Market Growth Drivers

**Decreasing Cost of Sequencing** 

Global Increase in Cancer Prevalence

Increasing Number of Population Genomics Initiatives

### Market Challenges

Lack of High Complexity Genomic Testing Centers in High Potential Markets

Challenges Pertaining to Genomic Data Centers

Scarcity of Knowledge Dissemination Pertaining to Advanced Diagnostic Capabilities

### Market Opportunities

Massive Scope for Adoption of Genomic Data Analysis Software in Emerging Nations

**Novel Diagnostic Applications** 

### **Key Companies Profiled**

Agilent Technologies, Inc., Beijing Genomics Institute (BGI) Genomics Co., Ltd, Bionano Genomics, Inc., F. Hoffmann-La Roche Ltd., Illumina, Inc., Longas



Technologies Pty Ltd, Novogene Co., Ltd., Oxford Nanopore Technologies, Inc., Pacific Biosciences of California, Inc., PerkinElmer Inc., QIAGEN N.V., Quantapore, Inc., and Thermo Fisher Scientific Inc.

Key Questions Answered in this Report:

How is long-read sequencing revolutionizing the field of next generation sequencing?

What are the major market drivers, challenges, and opportunities in the global long-read sequencing market?

What are the underlying structures resulting in the emerging trends within the global long-read sequencing market?

How is the COVID-19 pandemic impacting the global long-read sequencing market landscape?

What are the key development strategies that are being implemented by the major players in order to sustain themselves in the competitive market?

What are the key regulatory implications in developed and developing regions pertaining to long-read sequencing?

What are the potential entry barriers, which are expected to be faced by the companies willing to enter a particular region for the development of long-read sequencing?

How is each segment of the market expected to grow during the forecast period 2021-2030, and what is the anticipated revenue to be generated by each segment? Following are the segments:

Products (systems, kits, and assays, software) and services

Technology (single-molecule real-time (SRMT) sequencing, nanopore sequencing, synthetic long-read sequencing, and others)

Application (oncology, infectious diseases, rare diseases, genetic disorders, metabolic disorders, and translational research)



End user (academic and research institutions, pharma and biotech companies, clinical laboratories, hospitals and clinics, and other end users)

Region (North America, Europe, Asia-Pacific, Latin America, and Rest-of-the-World)

What are the growth opportunities for the companies in the region of their operation?

Who are the leading players with significant offerings in the global long-read sequencing market?

Which companies are anticipated to be highly disruptive in the future, and why?

What are the current unmet needs that are being faced in the global long-read sequencing market?

### Market Overview

Long-read sequencing is overcoming early limitations in throughput and accuracy. The sequencing methods are broadening their application domains in genomics and data analysis. Dedicated analysis tools that consider the characteristics of long-read data sequencing are required, while the fast pace of development of such tools can be overwhelming. Long-read sequencing, or third-generation sequencing, offers several advantages over short-read sequencing. However, short-read sequencers such as Illumina's NovaSeq, HiSeq, NextSeq, and MiSeq instruments, BGI's MGISEQ and BGISEQ models, or Thermo Fisher's Ion Torrent sequencers produce reads of up to 600 bases for long-read sequencing technologies routinely generate reads over 10 kb. Long-read sequencing analysis is a process that helps researchers and clinicians to analyze and interpret data generated by modern genomics technologies, such as NGS and PCR. As sequencing technologies are producing millions of high-quality reads per run, the adoption of robust long-read sequencing solutions has increased significantly over the past few years.

Our healthcare experts have found long-read sequencing to be one of the most rapidly evolving technologies, and the global market is predicted to grow at a CAGR of 21.15%



over the forecast period of 2021-2030.

Factors fueling the growth of the market include a decrease in the cost of sequencing, a global increase in cancer prevalence, and an increase in the number of population genomics initiatives. Despite rapid advanced industry growth, there are several key issues that need to be addressed to facilitate future growth. The lack of high complexity genomic testing centers in high potential markets, challenges pertaining to genomic data storage, and scarcity of knowledge dissemination pertaining to advanced diagnostic capabilities are the major challenges for the growth of the market. Further, some of the opportunities, such as massive scope for adoption of genomic data analysis software in emerging nations, provide growth to the market.

Within the research report, the market has been segmented on the basis of products and services, technology, application, and region. Each of these segments covers the snapshot of the market over the projected years, the inclination of the market revenue, underlying patterns, and trends by using analytics on the primary and secondary data obtained.

### Competitive Landscape

The exponential rise in the cases of cancer and genetic disorders on the global level has created a buzz among companies to invest in the advanced technologies of next-generation sequencing.

Based on region, North America holds the largest share, owing to improved healthcare infrastructure, rise in per capita income, and improvised reimbursement policies in the region. Apart from this, the Asia-Pacific and Europe regions are anticipated to grow at the fastest CAGR during the forecast period.



### **Contents**

### 1 PRODUCT DEFINITION

1.1 Inclusion and Exclusion

#### 2 MARKET SCOPE

- 2.1 Scope of the Study
- 2.2 Key Questions Answered in the Report

### **3 RESEARCH METHODOLOGY**

- 3.1 Global Long-Read Sequencing Market: Research Methodology
- 3.2 Data Sources
  - 3.2.1 Primary Data Sources
  - 3.2.2 Secondary Data Sources
- 3.3 Market Estimation Model
- 3.4 Criteria for Company Profiling

### **4 MARKET OVERVIEW**

- 4.1 Market Definition
- 4.2 Market Footprint and Growth Potential
- 4.3 COVID-19 Impact on Global Long-Read Sequencing Market

### **5 MARKET DYNAMICS**

- 5.1 Overview
- 5.2 Impact Analysis
- 5.3 Market Drivers
  - 5.3.1 Decreasing Cost of Sequencing
  - 5.3.2 Global Increase in Cancer Prevalence
  - 5.3.3 Increasing Number of Population Genomics Initiatives
- 5.4 Market Restraints
  - 5.4.1 Lack of High Complexity Genomic Testing Centers in High Potential Markets
  - 5.4.2 Challenges Pertaining to Genomic Data Storage
- 5.4.3 Scarcity of Knowledge Dissemination Pertaining to Advanced Diagnostic Capabilities



- 5.5 Market Opportunities
- 5.5.1 Massive Scope for Adoption of Genomic Data Analysis Software in Emerging Nations
  - 5.5.2 Novel Diagnostic Applications

### **6 INDUSTRY INSIGHTS**

- 6.1 Overview
- 6.2 Legal Requirements and Framework in the U.S.
  - 6.2.1 FDA Regulation
  - 6.2.2 Centers for Medicare and Medicaid Services (CMS) Regulation
- 6.3 Legal Requirements and Framework in Europe
- 6.4 Legal Requirements and Framework in Asia-Pacific
  - 6.4.1 China
  - 6.4.2 Japan

### 7 COMPETITIVE LANDSCAPE

- 7.1 Acquisitions
- 7.2 Synergistic Activities
- 7.3 Product Launches and Upgradations
- 7.4 Market Share Analysis (by Company), 2019 and 2020
- 7.5 Growth Share Analysis
  - 7.5.1 Growth Share Analysis (by Technology)
  - 7.5.2 Growth Share Analysis (by Application)

# 8 GLOBAL LONG-READ SEQUENCING MARKET (BY PRODUCTS AND SERVICES), \$MILLION, 2020-2030

- 8.1 Overview
- 8.2 Products
  - 8.2.1 Systems
  - 8.2.2 Kits and Assays
  - 8.2.3 Software
- 8.3 Services

# 9 GLOBAL LONG-READ SEQUENCING MARKET (BY TECHNOLOGY), \$MILLION, 2020-2030



- 9.1 Overview
- 9.2 Single-Molecule Real-Time (SMRT) Sequencing
- 9.3 Nanopore Sequencing
- 9.4 Synthetic Long-Read Sequencing
- 9.5 Other Sequencing Technologies

# 10 GLOBAL LONG-READ SEQUENCING MARKET (BY APPLICATION), \$MILLION, 2020-2030

- 10.1 Overview
- 10.2 Oncology
- 10.3 Infectious Diseases
- 10.4 Rare Diseases
- 10.5 Genetic Disorders
- 10.6 Metabolic Disorders
- 10.7 Translational Research

# 11 GLOBAL LONG-READ SEQUENCING MARKET (BY END USER), \$MILLION, 2020-2030

- 11.1 Overview
- 11.2 Academic and Research Institutions
- 11.3 Pharma and Biotech Companies
- 11.4 Clinical Laboratories
- 11.5 Hospitals and Clinics
- 11.6 Other End Users

# 12 GLOBAL LONG-READ SEQUENCING MARKET (BY REGION), \$MILLION, 2020-2030

- 12.1 Overview
- 12.2 North America
  - 12.2.1 U.S.
  - 12.2.2 Canada
- 12.3 Europe
  - 12.3.1 Germany
  - 12.3.2 U.K.
  - 12.3.3 France
  - 12.3.4 Italy



- 12.3.5 Spain
- 12.3.6 Netherlands
- 12.3.7 Russia
- 12.3.8 Rest-of-Europe
- 12.4 Asia-Pacific
  - 12.4.1 China
  - 12.4.2 Japan
  - 12.4.3 India
  - 12.4.4 South Korea
  - 12.4.5 Australia
  - 12.4.6 Singapore
  - 12.4.7 Rest-of-Asia-Pacific
- 12.5 Latin America
  - 12.5.1 Brazil
  - 12.5.2 Mexico
  - 12.5.3 Rest-of-Latin-America
- 12.6 Rest-of-the-World (RoW)

### 13 COMPANY PROFILES

- 13.1 Overview
- 13.2 Agilent Technologies, Inc.
  - 13.2.1 Company Overview
  - 13.2.2 Role of Agilent Technologies, Inc. in the Global Long-Read Sequencing Market
  - 13.2.3 Financials
  - 13.2.4 Key Insights About Financial of the Company
  - 13.2.5 SWOT Analysis
- 13.3 Beijing Genomics Institute (BGI) Genomics Co., Ltd
  - 13.3.1 Company Overview
- 13.3.2 Role of Beijing Genomics Institute (BGI) Genomics Co., Ltd in the Global Long-
- Read Sequencing Market
  - 13.3.3 SWOT Analysis
- 13.4 Bionano Genomics, Inc.
  - 13.4.1 Company Overview
  - 13.4.2 Role of Bionano Genomics, Inc. in the Global Long-Read Sequencing Market
  - 13.4.3 Financials
  - 13.4.4 Key Insights About Financial Health of the Company
  - 13.4.5 SWOT Analysis
- 13.5 F. Hoffmann-La Roche Ltd



- 13.5.1 Company Overview
- 13.5.2 Role of F. Hoffmann-La Roche Ltd in the Global Long-Read Sequencing Market
- 13.5.3 Financials
- 13.5.4 Key Insights About Financial Health of the Company
- 13.5.5 SWOT Analysis
- 13.6 Illumina, Inc.
  - 13.6.1 Company Overview
  - 13.6.2 Role of Illumina, Inc. in the Global Long-Read Sequencing Market
  - 13.6.3 Financials
  - 13.6.4 Key Insights About Financial Health of the Company
  - 13.6.5 SWOT Analysis
- 13.7 Longas Technologies Pty Ltd
- 13.7.1 Company Overview
- 13.7.2 Role of Longas Technologies Pty Ltd in the Global Long-Read Sequencing

#### Market

- 13.7.3 SWOT Analysis
- 13.8 Novogene Co., Ltd.
  - 13.8.1 Company Overview
  - 13.8.2 Role of Novogene Co., Ltd. in the Global Long-Read Sequencing Market
  - 13.8.3 SWOT Analysis
- 13.9 Oxford Nanopore Technologies, Inc.
- 13.9.1 Company Overview
- 13.9.2 Role of Oxford Nanopore Technologies, Inc. in the Global Long-Read

### Sequencing Market

- 13.9.3 SWOT Analysis
- 13.1 Pacific Biosciences of California, Inc.
  - 13.10.1 Company Overview
  - 13.10.2 Role of Pacific Biosciences of California, Inc. in the Global Long-Read

### Sequencing Market

- 13.10.3 Financials
- 13.10.4 Key Insights About Financial Health of the Company
- 13.10.5 SWOT Analysis
- 13.11 PerkinElmer, Inc.
  - 13.11.1 Company Overview
  - 13.11.2 Role of PerkinElmer Inc. in the Global Long-Read Sequencing Market
  - 13.11.3 Financials
  - 13.11.4 SWOT Analysis
- 13.12 QIAGEN N.V.
- 13.12.1 Company Overview



- 13.12.2 Role of QIAGEN N.V. in the Global Long-Read Sequencing Market
- 13.12.3 Financials
- 13.12.4 Key Insights About Financial Health of the Company
- 13.12.5 SWOT Analysis
- 13.13 Quantapore, Inc.
- 13.13.1 Company Overview
- 13.13.2 Role of the Quantapore, Inc. in the Global Long-Read Sequencing Market
- 13.13.3 SWOT Analysis
- 13.14 Thermo Fisher Scientific Inc.
  - 13.14.1 Company Overview
- 13.14.2 Role of Thermo Fisher Scientific Inc. in the Global Long-Read Sequencing

### Market

- 13.14.3 Financials
- 13.14.4 Key Insights About Financial Health of the Company
- 13.14.5 SWOT Analysis
- 13.15 Snapshot
  - 13.15.1 Stratos Genomics
    - 13.15.1.1 Company Overview
    - 13.15.1.2 Role of Stratos Genomics in the Global Long-Read Sequencing Market



### **List Of Tables**

### **LIST OF TABLES**

Tal	ole	5.	1:	Likert	Scale

Table 5.2: Impact Analysis of Market Drivers

Table 5.3: Impact Analysis of Market Restraints

Table 8.1: Systems Offered by Key Players

Table 8.2: Kits and Assays Offered by Key Players

Table 8.3: Services Offered by Key Players



## **List Of Figures**

### LIST OF FIGURES

- Figure 1: Annual NIH Funding in Human Genomics Research, FY2013-FY2019
- Figure 2: Impact Analysis of Market Drivers and Market Challenges on Global Long-Read Sequencing Market
- Figure 3: Global Long-Read Sequencing Market (by Products and Services), \$Million, 2020 vs. 2030
- Figure 4: Global Long-Read Sequencing Market (by Technology), \$Million, 2020 vs. 2030
- Figure 5: Global Long-Read Sequencing Market (by Application), \$Million, 2020 vs. 2030
- Figure 6: Global Long-Read Sequencing Market (by End User), \$Million, 2020 vs. 2030
- Figure 7: Global Long-Read Sequencing Market Snapshot
- Figure 2.1: Global Long-Read Sequencing Market: Segmentation
- Figure 3.1: Global Long-Read Sequencing Market: Methodology
- Figure 3.2: Primary Research Methodology
- Figure 3.3: Bottom-Up Approach (Segment-Wise Analysis)
- Figure 3.4: Top-Down Approach (Segment-Wise Analysis)
- Figure 4.1: Global Long-Read Sequencing Market, \$Million, 2020-2030
- Figure 4.2: Global Long-Read Sequencing Market: COVID-19 Impact
- Figure 5.1: Decreasing Cost and Increasing Output (TB) of Genome Sequencing, 2009-2025
- Figure 5.2: Global Cancer Burden, 2018
- Figure 6.1: FDA IVD Classification and Regulatory Process
- Figure 6.2: Key Changes in EU IVD Regulation 2017/746
- Figure 6.3: Medical Device Regulatory Approval Process in China
- Figure 7.1: Share of Key Developments and Strategies, January 2017-May 2021
- Figure 7.2: Share of Acquisitions (by Company), January 2017-May 2021
- Figure 7.3: Synergistic Activities Share (by Company), January 2018-May2021
- Figure 7.4: Number of Product Launches and Upgradations (by Company), January 2017–May 2021
- Figure 7.5: Market Share Analysis for Global Long-Read Sequencing Market, 2019 and 2020
- Figure 7.6: Growth Share Analysis for Global Long-Read Sequencing Market (by Technology), 2020-2031
- Figure 7.7: Growth Share Analysis for Global Long-Read Sequencing Market (by Application), 2020-2031



- Figure 8.1: Global Long-Read Sequencing Market (by Products and Services)
- Figure 8.2: Global Long-Read Sequencing Market (by Products and Services), 2020-2030
- Figure 8.3: Global Long-Read Sequencing Market (Products), \$Million, 2020-2030
- Figure 8.4: Global Long-Read Sequencing Market (Systems), \$Million, 2020-2030
- Figure 8.5: Global Long-Read Sequencing Market (Kits and Assays), \$Million, 2020-2030
- Figure 8.6: Global Long-Read Sequencing Market (Software), \$Million, 2020-2030
- Figure 8.7: Global Long-Read Sequencing Market (Services), \$Million, 2020-2030
- Figure 8.8: Global Long-Read Sequencing Market (by Service), 2020-2030
- Figure 9.1: Global Long-Read Sequencing Market (by Technology)
- Figure 9.2: Global Long-Read Sequencing Market (by Technology), 2020-2030
- Figure 9.3: Global Long-Read Sequencing Market (SMRT Sequencing), \$Million, 2020-2030
- Figure 9.4: Global Long-Read Sequencing Market (Nanopore Sequencing), \$Million, 2020-2030
- Figure 9.5: Global Long-Read Sequencing Market (Synthetic Long-Read Sequencing), \$Million, 2020-2030
- Figure 9.6: Global Long-Read Sequencing Market (Other Sequencing Technologies), \$Million, 2020-2030
- Figure 10.1: Global Long-Read Sequencing Market (by Application)
- Figure 10.2: Global Long-Read Sequencing Market (by Application), \$Million, 2020-2030
- Figure 10.3: Global Long-Read Sequencing Market (Oncology), \$Million, 2020-2030
- Figure 10.4: Global Long-Read Sequencing Market (Infectious Diseases), \$Million, 2020-2030
- Figure 10.5: Global Long-Read Sequencing Market (Rare Diseases), \$Million, 2020-2030
- Figure 10.6: Global Long-Read Sequencing Market (Genetic Disorders), \$Million, 2020-2030
- Figure 10.7: Global Long-Read Sequencing Market (Metabolic Disorders), \$Million, 2020-2030
- Figure 10.8: Global Long-Read Sequencing Market (Translational Research), \$Million, 2020-2030
- Figure 11.1: Global Long-Read Sequencing Market (by End User)
- Figure 11.2: Global Long-Read Sequencing Market (by End User), \$Million, 2020-2030
- Figure 11.3: Global Long-Read Sequencing Market (Academic and Research
- Institutions), \$Million, 2020-2030
- Figure 11.4: Global Long-read Sequencing Market (Pharma and Biotech Companies),



\$Million, 2020-2030

Figure 11.5: Global Long-read Sequencing Market (Clinical Laboratories), \$Million, 2020-2030

Figure 11.6: Global Long-read Sequencing Market (Hospitals and Clinics), \$Million, 2020-2030

Figure 11.7: Global Long-Read Sequencing Market (Other End Users), \$Million, 2020-2030

Figure 12.1: Global Long-Read Sequencing Market (by Region), 2020 and 2030

Figure 12.2: Global Long-Read Sequencing Market (by Region), \$Million, 2020-2030

Figure 12.3: Global Long-Read Sequencing Market (by Region), 2020-2030

Figure 12.4: North America Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.5: North America: Market Dynamics

Figure 12.6: North America Long-Read Sequencing Market (by Country), \$Million, 2020-2030

Figure 12.7: U.S. Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.8: Canada Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.9: Europe Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.10: Europe: Market Dynamics

Figure 12.11: Europe Long-Read Sequencing Market (by Country), \$Million, 2020-2030

Figure 12.12: Germany Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.13: U.K. Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.14: France Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.15: Italy Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.16: Spain Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.17: Netherlands Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.18: Russia Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.19: Rest-of-Europe Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.20: Asia-Pacific Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.21: APAC: Market Dynamics

Figure 12.22: APAC Long-Read Sequencing Market (by Country), \$Million, 2020-2030

Figure 12.23: China Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.24: Japan Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.25: India Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.26: South Korea Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.27: Australia Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.28: Singapore Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.29: RoAPAC Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.30: Latin America Long-Read Sequencing Market, \$Million, 2020-2030

Figure 12.31: Latin America: Market Dynamics



- Figure 12.32: Latin America Long-Read Sequencing Market (by Country), \$Million, 2020-2030
- Figure 12.33: Brazil Long-Read Sequencing Market, \$Million, 2020-2030
- Figure 12.34: Mexico Long-Read Sequencing Market, \$Million, 2020-2030
- Figure 12.35: Rest-of-Latin America Long-Read Sequencing Market, \$Million, 2020-2030
- Figure 12.36: RoW Long-Read Sequencing Market, \$Million, 2020-2030
- Figure 13.1: Total Number of Companies Profiled
- Figure 13.2: Agilent Technologies, Inc.: Product Portfolio
- Figure 13.3: Agilent Technologies, Inc.: Overall Financials, 2018-2020
- Figure 13.4: Agilent Technologies, Inc.: Revenue (by Segment), 2018-2020
- Figure 13.5: Agilent Technologies, Inc.: Revenue (by Region), 2018-2020
- Figure 13.6: Agilent Technologies, Inc.: R&D Expenditure, 2018-2020
- Figure 13.7: Agilent Technologies, Inc.: SWOT Analysis
- Figure 13.8: Beijing Genomics Institute (BGI) Genomics Co., Ltd: Product Portfolio
- Figure 13.9: Beijing Genomics Institute (BGI) Genomics Co., Ltd.: SWOT Analysis
- Figure 13.10: Bionano Genomics, Inc.: Product Portfolio
- Figure 13.11: Bionano Genomics, Inc.: Overall Financials, 2018-2020
- Figure 13.12: Bionano Genomics, Inc.: R&D Expenditure, 2018-2020
- Figure 13.13: Bionano Genomics, Inc.: SWOT Analysis
- Figure 13.14: F. Hoffmann-La Roche Ltd: Portfolio
- Figure 13.15: F. Hoffmann-La Roche Ltd: Overall Financials, 2018-2020
- Figure 13.16: F. Hoffmann-La Roche Ltd: Sales (by Segment), 2018-2020
- Figure 13.17: F. Hoffmann-La Roche Ltd: Sales (by Region), 2018-2020
- Figure 13.18: F. Hoffmann-La Roche Ltd: R&D Expenditure, 2018-2020
- Figure 13.19: F. Hoffmann-La Roche: SWOT Analysis
- Figure 13.20: Illumina, Inc.: Overall Financials, 2018-2020
- Figure 13.21: Illumina, Inc.: Revenue (by Segment), 2018-2020
- Figure 13.22: Illumina, Inc.: Revenue (by Region), 2018-2020
- Figure 13.23: Illumina, Inc.: R&D Expenditure, 2018-2020
- Figure 13.24: Illumina, Inc.: SWOT Analysis
- Figure 13.25: Longas Technologies Pty Ltd: Product Portfolio
- Figure 13.26: Longas Technologies Pty Ltd: SWOT Analysis
- Figure 13.27: Novogene Corporation: SWOT Analysis
- Figure 13.28: Oxford Nanopore Technologies, Inc.: Product Portfolio
- Figure 13.29: Oxford Nanopore Technologies, Inc.: SWOT Analysis
- Figure 13.30: Pacific Biosciences of California, Inc.: Overall Product Portfolio
- Figure 13.31: Pacific Biosciences of California, Inc.: Overall Financials, 2018-2020
- Figure 13.32: Pacific Biosciences of California, Inc.: Revenue (by Segment), 2018-2020



Figure 13.33: Pacific Biosciences of California, Inc.: Revenue (by Region), 2018-2020

Figure 13.34: Pacific Biosciences of California, Inc.: R&D Expenditure, 2018-2020

Figure 13.35: Pacific Biosciences of California, Inc.: SWOT Analysis

Figure 13.36: PerkinElmer, Inc.: Overall Financials, 2018-2020

Figure 13.37: PerkinElmer, Inc.: SWOT Analysis

Figure 13.38: QIAGEN N.V.: Portfolio

Figure 13.39: QIAGEN N.V.: Overall Financials, 2018-2020

Figure 13.40: QIAGEN N.V.: Revenue (by Segment), 2018-2020

Figure 13.41: QIAGEN N.V.: Revenue (by Region), 2018-2020

Figure 13.42: QIAGEN N.V.: R&D Expenditure, 2018-2020

Figure 13.43: QIAGEN N.V.: SWOT Analysis

Figure 13.44: Quantapore, Inc.: Product Portfolio

Figure 13.45: Quantapore, Inc.: SWOT Analysis

Figure 13.46: Thermo Fisher Scientific, Inc.: Product Portfolio

Figure 13.47: Thermo Fisher Scientific Inc.: Overall Financials, 2018-2020

Figure 13.48: Thermo Fisher Scientific Inc.: Revenue (by Business Segment),

2018-2020

Figure 13.49: Thermo Fisher Scientific Inc.: Revenue (by Region), 2018-2020

Figure 13.50: Thermo Fisher Scientific Inc.: R&D Expenditure, 2018-2020

Figure 13.51: Thermo Fisher Scientific Inc.: SWOT Analysis



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