

Global Population Sequencing Market: Focus on Product, Method, Technology, Application, Country, and Competitive Landscape - Analysis and Forecast, 2020-2030

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Abstracts

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Market Report Coverage - Global Population Sequencing Market

Market Segmentation

Product Type – Kits and Assays, Platforms, Software Tools

Application- Human Health, Molecular Forensics, Blockchain in Genomics

Methods- Whole Genome Sequencing, Whole Exome Sequencing, Single-Read Sequencing, and Other Sequencing Methods

Technology- Next-Generation Sequencing, Polymerase Chain Reaction and Other Technologies

Growth Drivers

Rising Adoption of Large-Scale Sequencing to Understand the Genomics of Susceptibility and Resistance from COVID-19

Increasing Adoption of Personalized Medicine for the Screening and Diagnostics



of Genetic Disorders

Global Surge in Direct-to-Consumer (DTC) Genetic Testing

Market Challenges

Lack of Infrastructure to Maintain, Store and Share Sensitive Genomic Data

Absence of Sufficient Funding for Development of High-Throughput Genomic Software Tools

Poor Reducibility and Translatability of Data in Clinical Practice

Market Opportunities

Advancing Precision Medicine with Blockchain-Powered Artificial Intelligence

Technological Advancements in Sample Preparation for Population Sequencing

Increased Population Engagement and Data Management

Key Companies Profiled

Thermo Fisher Scientific, Illumina Inc., Pacific Biosciences of California, Inc., Qiagen N.V., Oxford Nanopore Technologies, Inc., and Agilent Technologies, Inc., Genuity Science, F. Hoffman La-Roche Ltd., Nebula Genomics, Inc., Helix Opco, LLC, Beijing Genomics Institute, and Agilent Technologies, Inc.

Key Questions Answered in this Report:

What are the major market drivers, challenges, and opportunities in the global population sequencing market?

What is the potential impact of sequencing and biotechnological advancement in the application of genomic medicine and translational research?



What is the current market expense along with future expected expenses in population sequencing initiatives?

How population sequencing helped genomic tests to become a prominent tool for diagnostics in various clinical applications?

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

How is each segment of the market expected to grow during the forecast period from 2020 to 2030 based on:

method
application
technology
country

Who are the leading players with significant offerings to the global population sequencing market? What is the expected market dominance for each of these leading players?

Which emerging companies are anticipated to be highly disruptive in the future, and what are their key strategies for sustainable growth in the population sequencing industry?

Market Overview

As per BIS Research analysis, the population sequencing market is projected to reach \$64,047.6 million by 2030 from \$21,730.4 million in 2020, at a CAGR of 11.41% during the forecast period, 2020-2030. Growth in this market is expected to be driven by the rising adoption of large-scale sequencing to understand the genomics of susceptibility and resistance from COVID-19, increasing adoption of personalized medicine for the screening and diagnosis of genetic disorders, and a global surge in direct-to-consumer.



genetic testing. However, there are significant challenges that are restraining the market growth, such as lack of infrastructure to maintain, store, and share sensitive genomic data, absence of sufficient funding for the development of high-throughput genomic software tools, and poor reducibility and transability of data in clinical practice.

The market is favored by the technological advancements in the sequencing, and computational analysis solutions for large volume of genetic data enabling deep understanding of the genetic variants for the development of diagnostics, drug discovery, and translational research.

Furthermore, several sequencing companies are focusing on the development of high-throughput sequence platforms and polymerase chain reaction platforms, with higher sensitivity and low turn-around time to benefit the patients, enabling patient-based outcomes and implementing genomic medicine.

Within the research report, the market is segmented on the basis of product type, application, methods, and technology. 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 application of precision medicine on the global level has created a buzz among companies to invest in the development of rapid diagnostics providing information on genetic mutation and optimal candidates for adjuvant chemotherapy or hormonal therapy. Due to the diverse product portfolio and intense market penetration, Illumina, Inc. has been a pioneer in this field and has been a significant competitor in this market.

The population sequencing market provided immense growth opportunities for the companies providing technology and infrastructure for large-scale health initiatives, such as Color Genomics, Inc., Helix Opco, LLC, and big data companies such as Genuity Science



Contents

Executive Summary

1 PRODUCT DEFINITION

- 1.1 Definition by Product
 - 1.1.1 Platforms
 - 1.1.2 Kits and Assays
 - 1.1.3 Software Tools
- 1.2 Inclusion and Exclusion
 - 1.2.1 Inclusion and Exclusion for Country-Wise Market Estimation
- 1.3 Scope of Work
- 1.4 Key Questions Answered in the Report

2 RESEARCH METHODOLOGY

- 2.1 Primary Data Sources
- 2.2 Secondary Data Sources
- 2.3 Market Estimation Model
- 2.4 Criteria for Company Profiling

3 INTRODUCTION

- 3.1 Market Overview
- 3.2 Impact of COVID-19 on Population Sequencing
- 3.3 Future Potential

4 GLOBAL POPULATION SEQUENCING MARKET DYNAMICS

- 4.1 Overview
- 4.2 Impact Analysis
- 4.3 Market Drivers
- 4.3.1 Rising Adoption of Large-Scale Sequencing to Understand the Genomics of Susceptibility and Resistance from COVID-19
- 4.3.2 Increasing Adoption of Personalized Medicine for the Screening and Diagnostics of Genetic Disorders
- 4.3.3 Global Surge in Direct-to-Consumer (DTC) Genetic Testing
- 4.4 Market Restraints



- 4.4.1 Lack of Infrastructure to Maintain, Store and Share Sensitive Genomic Data
- 4.4.2 Absence of Sufficient Funding for Development of High-Throughput Genomic Software Tools
- 4.4.3 Poor Reducibility and Translatability of Data in Clinical Practice
- 4.5 Market Opportunity
- 4.5.1 Advancing Precision Medicine with Blockchain-Powered Artificial Intelligence
- 4.5.2 Technological Advancements in Sample Preparation for Population Sequencing
- 4.5.3 Increased Population Engagement and Data Management

5 COMPETITIVE LANDSCAPE

- 5.1 Key Strategies and Developments
 - 5.1.1 Product Approval
 - 5.1.2 Product Launches and Upgradations
 - 5.1.3 Synergistic Activities
 - 5.1.4 Funding and Expansion
 - 5.1.5 Acquisitions
 - 5.1.6 Other

6 INDUSTRY INSIGHTS

- 6.1 Overview
- 6.2 Legal Requirements and Framework in the U.S.
- 6.3 Legal Requirements and Framework in Europe
- 6.4 Legal Requirements and Framework in Asia-Pacific
 - 6.4.1 Japan
- 6.5 Market Share Analysis (by Company) 2019
 - 6.5.1 Growth Share Analysis (Opportunity Mapping)
 - 6.5.2 By Company

7 GLOBAL POPULATION SEQUENCING INITIATIVES (BY COUNTRY)

- 7.1 U.S.
- 7.2 Canada
 - 7.2.1 Population Sequencing Program
- 7.3 The U.K.
 - 7.3.1 Industrial Partnership Directing the Course of Genomic Medicine
- 7.4 Estonia
- 7.5 Germany



- 7.6 France
- 7.7 Ireland
- 7.8 Netherlands
- 7.9 Denmark
- 7.1 Japan
- 7.11 China
- 7.12 Australia
- 7.13 Saudi Arabia
- 7.14 Qatar
- 7.15 Turkey
- 7.16 Dubai

8 GLOBAL POPULATION SEQUENCING MARKET (BY PRODUCT), \$MILLION, 2019-2030

- 8.1 Introduction
- 8.2 Kits and Assays
- 8.3 Platforms
- 8.4 Software Tools

9 GLOBAL POPULATION SEQUENCING MARKET (BY METHODS), \$MILLION, 2019-2030

- 9.1 Introduction
- 9.2 Whole Genome Sequencing
- 9.3 Whole Exome Sequencing
- 9.4 Single-Read Sequencing
- 9.5 Other Sequencing Methods

10 GLOBAL POPULATION SEQUENCING MARKET (BY TECHNOLOGY), \$MILLION, 2019-2030

- 10.1 Introduction
- 10.2 Polymerase Chain Reaction (PCR)
- 10.3 Next Generation Sequencing (NGS)
- 10.4 Other Technologies

11 GLOBAL POPULATION SEQUENCING MARKET (BY APPLICATION), \$MILLION, 2019-2030



- 11.1 Introduction
- 11.2 Human health
 - 11.2.1 Clinical Applications
 - 11.2.1.1 Diagnostics
 - 11.2.1.1.1 Cancer Diagnostics
 - 11.2.1.1.2 Infectious Disease Diagnostics
 - 11.2.1.1.3 Rare Disease Diagnostics
 - 11.2.1.1.4 Other Diagnostics
 - 11.2.1.2 Drug Discovery and Development
 - 11.2.2 Translational Research Sequencing
- 11.3 Molecular Forensics
- 11.4 Blockchain in Genomics
 - 11.4.1 Data Sharing and Monetization
 - 11.4.2 Data Storage and Security
 - 11.4.3 Automated Health Insurance

12 GLOBAL POPULATION SEQUENCING MARKET (BY COUNTRY), \$MILLION, 2019-2030

- 12.1 U.S. Population Sequencing Market, \$Million, 2019-2030
- 12.2 Canada Population Sequencing Market, \$Million, 2019-2030
- 12.3 U.K. Population Sequencing Market, \$Million, 2019-2030
- 12.4 Germany Population Sequencing Market, \$Million, 2019-2030
- 12.5 Denmark Population Sequencing Market, \$Million, 2019-2030
- 12.6 Ireland Population Sequencing Market, \$Million, 2019-2030
- 12.7 Estonia Population Sequencing Market, \$Million, 2019-2030
- 12.8 Finland Population Sequencing Market, \$Million, 2019-2030
- 12.9 Netherlands Population Sequencing Market, \$Million, 2019-2030
- 12.1 China Population Sequencing Market, \$Million, 2019-2030
- 12.11 Japan Population Sequencing Market, \$Million, 2019-2030
- 12.12 Saudi Arabia Population Sequencing Market, \$Million, 2019-2030
- 12.13 Turkey Population Sequencing Market, \$Million, 2019-2030
- 12.14 Qatar Population Sequencing Market, \$Million, 2019-2030

13 COMPANY PROFILES

- 13.1 Agilent Technologies, Inc.
 - 13.1.1 Company Overview



- 13.1.2 Role of Agilent Technologies, Inc. in Global Population Sequencing Market
- 13.1.3 Financials
- 13.1.4 Key Insights About Financial Health of the Company
- 13.1.5 SWOT Analysis
- 13.2 Beijing Genomics Institute (BGI)
 - 13.2.1 Company Overview
 - 13.2.2 Role of BGI in Global Population Sequencing Market
 - 13.2.3 SWOT Analysis
- 13.3 Color Genomics, Inc.
 - 13.3.1 Company Overview
 - 13.3.2 Role of Color Genomics, Inc. in Global Population Sequencing Market
 - 13.3.3 SWOT Analysis
- 13.4 F. Hoffmann-La Roche Ltd
 - 13.4.1 Company Overview
 - 13.4.2 Role of F. Hoffmann-La Roche Ltd in Global Population Sequencing Market
 - 13.4.3 Financials
 - 13.4.4 Key Insights About Financial Health of the Company
 - 13.4.5 SWOT Analysis
- 13.5 Genuity Science
 - 13.5.1 Company Overview
 - 13.5.2 Role of Genuity Science in Global Population Sequencing Market
 - 13.5.3 SWOT Analysis
- 13.6 Helix OpCo, LLC
 - 13.6.1 Company Overview
 - 13.6.2 Role of Helix Opco, LLC in Global Population Sequencing Market
 - 13.6.3 SWOT Analysis
- 13.7 Illumina, Inc.
- 13.7.1 Company Overview
- 13.7.2 Role of Illumina, Inc. in Global Population Sequencing Market
- 13.7.3 Financials
- 13.7.4 Key Insights About Financial Health of the Company
- 13.7.5 SWOT Analysis
- 13.8 Nebula Genomics, Inc.
 - 13.8.1 Company Overview
 - 13.8.2 Role of Nebula Genomics, Inc. in Global Population 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 Global Population 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 Global Population Sequencing Market
 - 13.10.3 Financials
 - 13.10.4 Key Insights About Financial Health of the Company
 - 13.10.5 SWOT Analysis
- 13.11 QIAGEN N.V.
 - 13.11.1 Company Overview
 - 13.11.2 Role of QIAGEN N.V. in Global Population Sequencing Market
 - 13.11.3 Financials
 - 13.11.4 Key Insights About Financial Health of the Company
 - 13.11.5 SWOT Analysis
- 13.12 Thermo Fisher Scientific Inc.
 - 13.12.1 Company Overview
 - 13.12.2 Role of Thermo Fisher Scientific Inc. in Global Population Sequencing Market
 - 13.12.3 Financials
 - 13.12.4 Key Insights About Financial Health of the Company
 - 13.12.5 SWOT Analysis



List Of Tables

LIST OF TABLES

Table	4 1.	Likert	Scale
I abic	T. I.		Ocaic

- Table 4.2: Impact Analysis of Market Drivers
- Table 4.3: Impact Analysis of Market Restraints
- Table 4.4: Per Sample Clinical Cost of WGS and WES
- Table 7.1: Population Sequencing Initiative in U.S.
- Table 7.2: Funding Allocated to Different Agencies
- Table 7.3: Population Sequencing Initiative in Canada
- Table 7.4: National and International Initiatives in Canada
- Table 7.5: Ongoing Population Sequencing Program
- Table 7.6: Population Sequencing Initiatives in the U.K.
- Table 7.7: Key Investments Driving Genomic Medicine in the U.K.
- Table 7.8: Genomic Medicine Centers in the U.K.
- Table 7.9: Population Genomic Initiatives in Estonia
- Table 7.10: Population Genomic Initiatives in Germany
- Table 7.11: Population Genomic Initiatives in France
- Table 7.12: French Genomic Platform
- Table 7.13: Population Genomic Initiatives in Ireland
- Table 7.14: Population Genomic Initiatives in Netherlands
- Table 7.15: Population Genomic Initiatives in Denmark
- Table 7.16: Population Sequencing Initiative in Japan
- Table 7.17: Population Sequencing Initiative in China
- Table 7.18: Population Sequencing Initiative in Australia
- Table 7.19: Population Sequencing Initiative in Saudi Arabia
- Table 7.20: Genome Sequencing Centers
- Table 7.21: Population Sequencing Initiative in Qatar
- Table 7.22: Population Sequencing Initiative in Turkey
- Table 7.23: Population Sequencing Initiative in Dubai
- Table 8.1: Market Available Sequencing Kits and Assays
- Table 8.2: Market Available Population Sequencing Platforms
- Table 8.3: Market Available Population Sequencing Software Tools



List Of Figures

LIST OF FIGURES

- Figure 1: Total Global Disease Burden (by Cause), 2010-2017
- Figure 2: Impact Analysis of Market Drivers and Market Challenges on the Global

Population Sequencing Market

- Figure 3: Global Population Sequencing Market (by Product Type), \$Million, 2020 vs. 2030
- Figure 4: Global Population Sequencing Market (by Application), \$Million, 2020 vs. 2030
- Figure 5: Global Population Sequencing Market (by Method), \$Million, 2020 vs. 2030
- Figure 6: Global Population Sequencing Market (by Technology), \$Million, 2020 vs. 2030
- Figure 7: Global Population Sequencing Market Snapshot
- Figure 1.1: Global Population Sequencing Market Segments Primary Research Methodology
- Figure 2.1: Bottom-Up Approach (Segment-Wise Analysis)
- Figure 2.2: Top-Down Approach (Segment-Wise Analysis)
- Figure 3.1: Evolution of Population Sequencing
- Figure 3.2: Active Population Sequencing Initiatives
- Figure 4.1: U.S. Prevalence of Lyme Disease 2009-2018:
- Figure 4.2: Global Prevalence Rate of Selected Rare Diseases Per 100,000 People
- Figure 4.3: Number of People Tested by Consumer Genetics Companies (as of 2019)
- Figure 5.1: Share of Key Developments and Strategies, 2017–2020
- Figure 5.2: Product Approval Share (by Company), 2017–2020
- Figure 5.3: Product Launch and Upgradation Share (by Company), 2017–2020
- Figure 5.4: Synergistic Activities Share (by Company), 2017-2020
- Figure 5.5: Funding and Expansion Share (by Company), 2017-2020
- Figure 5.6: Acquisitions Share (by Company), 2017-2020
- Figure 5.7: Other Key Development Share (by Company), 2017-2020
- Figure 6.1: Regulatory Scenario in Europe (by Country)
- Figure 6.2: Assessment of Commercialization Strategy in Japan
- Figure 6.3: Market Share Analysis for the Global Population Sequencing Market 2019
- Figure 6.4: Growth Share Matrix for Global Population Sequencing Market (by
- Company), 2019
- Figure 7.1: Genome Centers in Canada
- Figure 7.2: Member of the GENE Consortium
- Figure 8.1: Global Population Sequencing Market (by Product), \$Million, 2019-2030
- Figure 8.2: Global Population Sequencing Market (Kits and Assays), \$Million,



2019-2030

Figure 8.3: Global Population Sequencing Market (by Platforms), \$Million, 2019-2030

Figure 8.4: Global Population Sequencing Market (by Software tools), \$Million,

2019-2030

Figure 9.1: Global Population Sequencing Market (by Methods), \$Million, 2019-2030

Figure 9.2: Global Population Sequencing Market (Whole Genome Sequencing),

\$Million, 2019-2030

Figure 9.3: Global Population Sequencing Market (Whole Exome Sequencing), \$Million,

2019-2030

Figure 9.4: Global Population Sequencing Market (Single-Read Sequencing), \$Million,

2019-2030

Figure 9.5: Global Population Sequencing Market (Other Sequencing Methods),

\$Million, 2019-2030

Figure 10.1: Global Population Sequencing Market (by Technology), \$Million,

2019-2030

Figure 10.2: Global Population Sequencing Market (PCR), \$Million, 2019-2030

Figure 10.3: Global Population Sequencing Market (NGS), \$Million, 2019-2030

Figure 10.4: Global Population Sequencing Market (Other Technologies), \$Million,

2019-2030

Figure 11.1: Global Population Sequencing Market (by Application), \$Million, 2019-2030

Figure 11.2: Global Population Sequencing Market (Human Health), \$Million,

2019-2030

Figure 11.3: Global Population Sequencing Market (by Human Heath Application),

\$Million, 2019-2030

Figure 11.4: Global Population Sequencing Market (by Clinical Application), \$Million,

2019-2030

Figure 11.5: Global Population Sequencing Market (by Clinical Application), \$Million,

2019-2030

Figure 11.6: Global Population Sequencing Market (Diagnostics Application) (\$Million),

2019-2030

Figure 11.7: Global Population Sequencing Market (Diagnostics Application) (\$Million),

2019-2030

Figure 11.8: Global Population Sequencing Market (Cancer Diagnostics), \$Million,

2019-2030

Figure 11.9: Global Population Sequencing Market (Infectious Disease Diagnostics),

\$Million, 2019-2030

Figure 11.10: Global Population Sequencing Market (Rare Disease Diagnostics),

\$Million, 2019-2030

Figure 11.11: Global Population Sequencing Market (Other Diagnostics), \$Million,



2019-2030

Figure 11.12: Global Population Sequencing Market (Diagnostics Application), \$Million, 2019-2030

Figure 11.13: Global Population Sequencing Market (Translational Research), \$Million, 2019-2030

Figure 11.14: Global Population Sequencing Market (Molecular Forensics), \$Million, 2019-2030

Figure 11.15: Global Population Sequencing Market (Blockchain in Genomics), \$Million, 2019-2030

Figure 11.16: Global Population Sequencing Market (Blockchain in Genomics), \$Million, 2019-2030

Figure 11.17: Global Population Sequencing Market (Data Sharing and Monetization), \$Million, 2019-2030

Figure 11.18: Global Population Sequencing Market (Data Storage and Security), \$ Millions, 2019-2030

Figure 11.19: Global Population Sequencing Market (Automated Health Insurance), \$Millions, 2019-2030

Figure 12.1: Global Population Sequencing Market (by Country), \$Million, 2020 and 2030

Figure 12.2: U.S. Population Sequencing Market \$Million, 2019-2030

Figure 12.3: Canada Population Sequencing Market \$Million, 2019-2030

Figure 12.4: U.K. Population Sequencing Market \$Million, 2019-2030

Figure 12.5: Germany Population Sequencing Market \$Million, 2019-2030

Figure 12.6: Denmark Population Sequencing Market \$Million, 2019-2030

Figure 12.7: Ireland Population Sequencing Market \$Million, 2019-2030

Figure 12.8: Estonia Population Sequencing Market \$Million, 2019-2030

Figure 12.9: Finland Population Sequencing Market \$Million, 2019-2030

Figure 12.10: Netherlands Population Sequencing Market \$Million, 2019-2030

Figure 12.11: China Population Sequencing Market \$Million, 2019-2030

Figure 12.12: Japan Population Sequencing Market \$Million, 2019-2030

Figure 12.13: Saudi Arabia Population Sequencing Market \$Million, 2019-2030

Figure 12.14: Saudi Arabia Population Sequencing Market \$Million, 2019-2030

Figure 12.15: Qatar Population Sequencing Market \$Million, 2019-2030

Figure 13.1: Total Number of Companies Profiled

Figure 13.2: Agilent Technologies, Inc.: Product Portfolio

Figure 13.3: Agilent Technologies, Inc.: Overall Financials, 2017-2019

Figure 13.4: Agilent Technologies, Inc.: Revenue (by Segment), 2017-2019

Figure 13.5: Agilent Technologies, Inc.: Revenue (by Region), 2017-2019

Figure 13.6: Agilent Technologies, Inc.: R&D Expenditure, 2017-2019



- Figure 13.7: Agilent Technologies, Inc.: SWOT Analysis
- Figure 13.8: BGI:Product Portfolio
- Figure 13.9: BGI: SWOT Analysis
- Figure 13.10: Color Genomic, Inc.: Product Portfolio
- Figure 13.11: Color Genomics, Inc.: SWOT Analysis
- Figure 13.12: F. Hoffmann-La Roche Ltd: Overall Financials, 2017-2019
- Figure 13.13: F. Hoffmann-La Roche Ltd: Revenue (by Segment), 2017-2019
- Figure 13.14: F. Hoffmann-La Roche Ltd: Revenue (by Region), 2017-2019
- Figure 13.15: F. Hoffmann-La Roche Ltd: R&D Expenditure, 2017-2019
- Figure 13.16: F. Hoffmann-La Roche Ltd: SWOT Analysis
- Figure 13.17: Genuity Science.: Overall Product Portfolio
- Figure 13.18: Genuity Science: SWOT Analysis
- Figure 13.19: Helix Opco LLC: Product Portfolio
- Figure 13.20: Helix Opco, LLC: SWOT Analysis
- Figure 13.21: Illumina, Inc.: Overall Product Portfolio
- Figure 13.22: Illumina, Inc.: Overall Financials, 2017-2019
- Figure 13.23: Illumina, Inc.: Revenue (by Segment), 2017-2019
- Figure 13.24: Illumina, Inc.: Revenue (by Region), 2017-2019
- Figure 13.25: Illumina, Inc.: R&D Expenditure, 2017-2019
- Figure 13.26: Illumina, Inc.: SWOT Analysis
- Figure 13.27: Nebula Genomics, Inc.: Overall Product Portfolio
- Figure 13.28: Nebula Genomics, Inc.: SWOT Analysis
- Figure 13.29: Oxford Nanopore Technologies, Inc.: Product Offerings
- Figure 13.30: Oxford Nanopore Technologies, Inc.: SWOT Analysis
- Figure 13.31: Pacific Biosciences of California, Inc.: Overall Product Portfolio
- Figure 13.32: Pacific Biosciences of California, Inc.: Overall Financials, 2017-2019
- Figure 13.33: Pacific Biosciences of California, Inc.: Revenue (By Segment), 2017-2019
- Figure 13.34: Pacific Biosciences of California, Inc.: Revenue (by Region), 2017-2019
- Figure 13.35: Pacific Biosciences of California, Inc.: R&D Expenditure, 2017-2019
- Figure 13.36: Pacific Biosciences of California, Inc.: SWOT Analysis
- Figure 13.37: QIAGEN N.V.: Product Portfolio
- Figure 13.38: QIAGEN N.V.: Overall Financials, 2017-2019
- Figure 13.39: QIAGEN N.V.: Revenue (by Product Segment), 2017-2019
- Figure 13.40: QIAGEN N.V.: Revenue (by Segment), 2017-2019
- Figure 13.41: QIAGEN N.V.: Revenue (by Region), 2017-2019
- Figure 13.42: QIAGEN N.V.: R&D Expenditure, 2017-2019
- Figure 13.43: QIAGEN N.V.: SWOT Analysis
- Figure 13.44: Thermo Fisher Scientific Inc.: Product Portfolio
- Figure 13.45: Thermo Fisher Scientific Inc.: Overall Financials, 2017-2019



Figure 13.46: Thermo Fisher Scientific Inc.: Revenue (by Segment), 2017-2019 Figure 13.47: Thermo Fisher Scientific Inc.: Revenue (by Region), 2017-2019 Figure 13.48: Thermo Fisher Scientific Inc.: R&D Expenditure, 2017-2019

Figure 13.49: Thermo Fisher Scientific Inc.: SWOT Analysis



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