

Next Generation Sequencers: Market Research Report

<https://marketpublishers.com/r/ND9D3BFDC66EN.html>

Date: January 2018

Pages: 295

Price: US\$ 5,450.00 (Single User License)

ID: ND9D3BFDC66EN

Abstracts

This report analyzes the worldwide markets for Next Generation Sequencers in US\$ Thousand. The Global market is additionally analyzed by the following End-Use Segments: Pharmaceutical/Biotech, Industrial, and Government/Academia. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World. Annual estimates and forecasts are provided for the period 2015 through 2022.

Also, a six-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs.

The report profiles 93 companies including many key and niche players such as -

Agilent Technologies Inc.

Becton, Dickinson and Company

Fluidigm Corporation

Genomatix GmbH

Illumina, Inc.

Contents

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

II. EXECUTIVE SUMMARY

1. OVERVIEW

Next Generation Sequencing Techniques Transform the Genomics Space
Next Generation Sequencers (NGS): A High-Throughput Sequencing Technology
US Leads the NGS Market, Asia-Pacific to Foster Future Growth
Academic & Research Dominates NGS Market
Oncology Testing – The Application with Most Promising Opportunities for NGS Technology
Declining Cost of Sequencing to Fuel Adoption of NGS Systems

Table 1. Cost Per Genome Sequencing in \$ for the Years 2000 through 2016 (includes corresponding Graph/Chart)

After Dramatic Price Declines, Is NGS Market Positioned for Further Disruption?

2. COMPETITIVE LANDSCAPE

A Highly Competitive Marketplace
Illumina Leads the Global NGS Market
Illumina's NGS Instruments Portfolio – A Comparison

Table 2. Leading Vendors in the Global NGS Market (2016E): Percentage Breakdown of Installed Base for Illumina, Life Technologies/Thermo Fisher, and Others (includes corresponding Graph/Chart)

Table 3. Leading Players in the Global NGS Instruments & Consumables Market (2016E): Percentage Breakdown of Revenues for Illumina, Life Technologies/Thermo Fisher, Pacific Biosciences and Others (includes corresponding Graph/Chart)

A Glance at the Major NGS Platforms in Use
Key NGS Platforms on the Market

3. GROWTH DRIVERS, MARKET TRENDS & ISSUES

Expanding Applications of NGS Technology

NGS Revolutionizes Drug Discovery and Development Space

Genetic Information offered by NGS Aids in Drug Development Process

Revolutionary Capabilities of NGS Technology to Play a Vital Part in Advancement of Precision Medicine

Rising Incidences of Cancer & Benefits of Personalized Cancer Therapy to Propel NGS Market

Comparison of Sanger Sequencing, Real-time PCR Sequencing and Next Generation Sequencing Methods for Identification of Driver Mutations

Key Cancer Statistics

Table 4. Worldwide Incidence of Cancer: Number of New Cases Diagnosed for the Years 2013, 2020 & 2030 (includes corresponding Graph/Chart)

Table 5. New Cancer Cases in the World by Affected Site (2012) (In Thousands) (includes corresponding Graph/Chart)

Table 6. Common Cause of Cancer Deaths Worldwide - Number of Deaths due to Select Types of Cancer for 2015 (includes corresponding Graph/Chart)

NGS Emerges as a Game Changing Technology for Precision Oncology

Personalized Medicine: Growing Prominence of NGS in Providing Customized Treatments to Patients

Growing Significance of NGS in Enabling Personalized Oncology – Timeline of Major Developments in Sequencing Technologies & Applications Related to Oncology

Personal Genomics Services – Blessing or Bane?

NGS Technology Drives RNA Sequencing in Transcriptomics

Longer Reach of a Read: A Key Feature Considered for Sequencing

qPCR – The Core Technique in NGS Technique

Development of New Systems & Platforms to Fuel NGS Utilization

Advancements in Next Generation Sequencing (NGS) Technology Fuel Adoption

Development Efforts Intensify in Long-Read Sequencing

Single-Cell Genomics: A Promising Application of NGS Technology

Shift from Tumor Biopsies to Cancer Liquid Biopsies

NGS Enhances Study of Antimicrobial Resistance

Effective Use of NGS Tools in Public Healthcare Systems
E-Infrastructure for Storage & Analysis of NGS Data
Explosive Growth in Sequencing Data Drives Focus onto Cloud Computing
NGS Hold an Edge Over CE Sequencing Method
Standardization of NGS Technique: A Critical Requirement for Wider Adoption
Challenges Confronting High-throughput Sequencing Market
High Machine Costs and Licensure Fees
Lack of Skilled Personnel
Absence of Regulatory Framework
Limited Access to Scientific Literature and Internet
Suboptimal Outsourcing Services
Regulations Related to NGS-Based Tests
Innovative Technologies
Nanopore Sequence Technology
Single-Molecule Real-Time technology (SMRT)
Direct Genomics' Single Molecule Sequencing
TruSPADES Simplifies Metagenomics Sequencing
GnuBIO Platform
Electron Microscopy DNA Sequencing
FRET-based DNA Sequencing
Identification/Sequencing using Mechanical Properties

MALDI-TOF MS

RNAP Sequencing Method
Tunneling Currents DNA Sequencing
qPCR-Driven Library Quantitation Saves Time and Overheads
Achieving Trans-Block Uniformity
Enhancing qPCR Precision

4. TECHNOLOGY OVERVIEW

5. PRODUCT INNOVATIONS/INTRODUCTIONS

QIAGEN Launches Novel QIAseq NGS Panels
BD Launches BD CLiC System
Immucor and Sirona Genomics Launch MIA FORA NGS
bioMérieux and Illumina Launch bioMérieux EpiSeq NGS Service
Bioline Introduces JetSeq Kit for NGS Sample Preparation

Oxford Gene Technology Launches SureSeq NGS Solutions
GENEWIZ Launches FuzeSeq Antibody Sequencing Technology
Sage Science Launches PippinHT Automated Instruments for Use with NGS
BGI Tech to Launch Two Ranges of NGS – X Bio and Intelligen
Thermo Fisher Scientific Introduces Clinical NGS Oncology Quality Control
Vela Diagnostics Announces Pre-launch of Automated NGS
Rubicon Genomics Launches PicoPLEX DNA-seq Kits for Use with NGS Platforms

6. RECENT INDUSTRY ACTIVITY

Mayo Clinic Collaborates with Illumina on NGS
Sophia Genetics Enters into Partnership with Illumina
Novogene Enters into Collaboration with AITbiotech
Natera Extends Supply Agreement with Illumina
ArcherDX Enters into Collaboration with Illumina
TBUSH to Acquire WaferGen Bio-systems
Advanced Biological Laboratories Signs Distribution Agreement with Thermo Fisher Scientific
Bio-Rad Enters into Partnership with Illumina
SYGNIS AG Signs Distribution Agreement with Lucigen
Almac Diagnostics Enters into Collaboration with Illumina
Roche Acquires Kapa Biosystems
QIAGEN Expands Partnership with BGI
Intel Enters into Partnership with Edico Genome
Illumina Enters into Partnership with Merck Serono
Lockheed Martin and Illumina Enter into Partnership
WuXi PharmaTech Acquires NextCODE Health
Roche Acquires Bina Technologies
CollabRx Enters into Partnership with Cartagenia
New England Biolabs and Directed Genomics Enter into Partnership
Reprogenetics Partners with Illumina
BD Acquires GenCell Biosystems
AB SCIEX and Illumina Enter into OneOmics Partnership Project
Thermo Fisher Scientific, GSK, and Pfizer Enter into Agreement to Develop NGS
AstraZeneca Collaborates with Illumina
Roche Acquires Genia Technologies

7. FOCUS ON SELECT GLOBAL PLAYERS

Agilent Technologies Inc. (US)
Becton, Dickinson and Company (BD) (US)
Fluidigm Corporation (US)
Genomatix GmbH (Germany)
Illumina, Inc. (US)
Oxford Gene Technology (UK)
Oxford Nanopore Technologies (UK)
Pacific Biosciences of California, Inc. (US)
QIAGEN N. V. (The Netherlands)
RainDance Technologies, Inc. (US)
Roche Sequencing (US)
Shenzhen BGI Diagnosis Co., Ltd. (China)
Thermo Fisher Scientific, Inc. (US)

8. GLOBAL MARKET PERSPECTIVE

Table 7. World Recent Past, Current & Future Analysis for Next Generation Sequencers by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific, Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 8. World Historic Review for Next Generation Sequencers by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific, Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 9. World 14-Year Perspective for Next Generation Sequencers by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific, Latin America and Rest of World Markets for Years 2009, 2016 and 2022 (includes corresponding Graph/Chart)

Table 10. World Recent Past, Current & Future Analysis for Next Generation Sequencers by End-Use Industry - Pharmaceuticals/Biotech, Industrial, and Government/Academia Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 11. World Historic Review for Next Generation Sequencers by End-Use Industry - Pharmaceuticals/ Biotech, Industrial, and Government/Academia Markets

Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 12. World 14-Year Perspective for Next Generation Sequencers by End-Use Industry - Percentage Breakdown of Dollar Sales for Pharmaceuticals/Biotech, Industrial, and Government/Academia Markets for Years 2009, 2016 and 2022 (includes corresponding Graph/Chart)

III. MARKET

1. THE UNITED STATES

A. Market Analysis

Market Overview

FDA Regulations on NGS-Based Tests

Sequencing Applications Drive the US Genomics Market

NGS for Clinical Oncology – A Promising Area of Growth

Product Launches

Strategic Corporate Developments

Select Key Players

B. Market Analytics

Table 13. US Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 14. US Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

2. CANADA

Market Analysis

Table 15. Canadian Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 16. Canadian Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

3. JAPAN

A. Market Analysis

Current and Future Analysis

Strategic Corporate Development

B. Market Analytics

Table 17. Japanese Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 18. Japanese Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4. EUROPE

A. Market Analysis

Market Overview

B. Market Analytics

Table 19. European Recent Past, Current & Future Analysis for Next Generation Sequencers by Geographic Region/Country - France, Germany, Italy, UK, Spain, Russia, and Rest of European Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 20. European Historic Review for Next Generation Sequencers by Geographic Region/Country - France, Germany, Italy, UK, Spain, Russia, and Rest of European Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 21. European 14-Year Perspective for Next Generation Sequencers by

Geographic Region/Country - Percentage Breakdown of Dollar Sales for France, Germany, Italy, UK, Spain, Russia, and Rest of European Markets for Years 2009, 2016 and 2022 (includes corresponding Graph/Chart)

4A. FRANCE

Market Analysis

Table 22. French Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 23. French Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4B. GERMANY

A. Market Analysis

Current and Future Analysis

Genomatix GmbH – A Key Player

B. Market Analytics

Table 24. German Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 25. German Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4C. ITALY

Market Analysis

Table 26. Italian Recent Past, Current & Future Analysis for Next Generation

Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 27. Italian Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4D. THE UNITED KINGDOM

A. Market Analysis

Current and Future Analysis

Product Launch

Strategic Corporate Development

Select Key Players

B. Market Analytics

Table 28. UK Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 29. UK Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4E. SPAIN

Market Analysis

Table 30. Spanish Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 31. Spanish Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4F. RUSSIA

Market Analysis

Table 32. Russian Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 33. Russian Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

4G. REST OF EUROPE

A. Market Analysis

Current and Future Analysis

Product Launch

Strategic Corporate Developments

QIAGEN N. V. (Netherlands) – A Key Player

B. Market Analytics

Table 34. Rest of European Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 35. Rest of European Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC

Market Analysis

Table 36. Asia-Pacific Recent Past, Current & Future Analysis for Next Generation Sequencers by Geographic Region/Country - China, and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 37. Asia-Pacific Historic Review for Next Generation Sequencers by Geographic Region/Country - China, and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 38. Asia-Pacific 14-Year Perspective for Next Generation Sequencers by Geographic Region/Country - Percentage Breakdown of Dollar Sales for China, and Rest of Asia-Pacific Markets for Years 2009, 2016 and 2022 (includes corresponding Graph/Chart)

5A. CHINA

A. Market Analysis

Current and Future Analysis

Strategic Corporate Development

Shenzhen BGI Diagnosis Co., Ltd. – A Key Player

B. Market Analytics

Table 39. Chinese Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 40. Chinese Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

5B. REST OF ASIA-PACIFIC

A. Market Analysis

Current and Future Analysis

Strategic Corporate Development

B. Market Analytics

Table 41. Rest of Asia-Pacific Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 42. Rest of Asia-Pacific Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

6. LATIN AMERICA

Market Analysis

Table 43. Latin American Recent Past, Current & Future Analysis for Next Generation Sequencers by Geographic Region/Country - Brazil, and Rest of Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 44. Latin American Historic Review for Next Generation Sequencers by Geographic Region/Country - Brazil, and Rest of Latin America Markets Independently Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

Table 45. Latin American 14-Year Perspective for Next Generation Sequencers by Geographic Region/Country - Percentage Breakdown of Dollar Sales for Brazil, and Rest of Latin America Markets for Years 2009, 2016 and 2022 (includes corresponding Graph/Chart)

7. REST OF WORLD

Market Analysis

Table 46. Rest of World Recent Past, Current & Future Analysis for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2015 through 2022 (includes corresponding Graph/Chart)

Table 47. Rest of World Historic Review for Next Generation Sequencers Market Analyzed with Annual Sales Figures in US\$ Thousand for Years 2009 through 2014 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE

Total Companies Profiled: 93 (including Divisions/Subsidiaries - 104)

The United States (61)

Canada (3)

Japan (2)

Europe (27)

France (1)

Germany (7)

The United Kingdom (5)

Rest of Europe (14)

Asia-Pacific (Excluding Japan) (11)

I would like to order

Product name: Next Generation Sequencers: Market Research Report

Product link: <https://marketpublishers.com/r/ND9D3BFDC66EN.html>

Price: US\$ 5,450.00 (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/ND9D3BFDC66EN.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