

Global and China DNA Sequencing Industry
Research Report, 2014-2017

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STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

REPORT OBJECTIVES

- To establish a comprehensive, factual, annually updated and costeffective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- ◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- ◆ To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

METHODOLOGY

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications.

Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

INFORMATION SOURCES

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

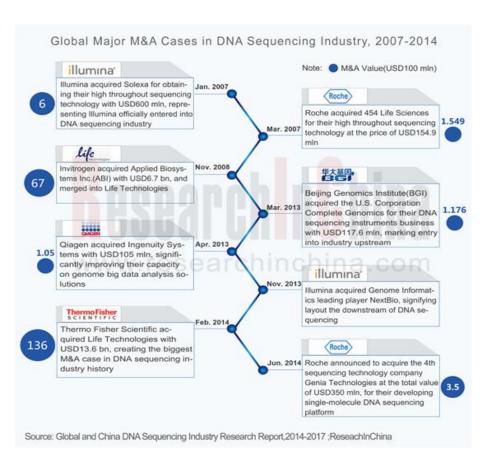
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Abstract

DNA sequencing is the process of reading nucleotide bases in a specific DNA molecule, that is to say determining the arrangement mode of adenine, thymine, cytosine, and guanine. It can be applied in a broad range of fields, including medicine, biology, geology, and agriculture.

With the advancement of DNA sequencing technology and dramatic decline in sequencing costs, DNA sequencing is increasingly showing its market potential in noninvasive detection, disease diagnosis, and personalized treatment. In 2013, the market size of global DNA sequencing (including equipment and consumables, service and workflow, etc.) approximated USD4.6 billion, up around 26% from the previous year. It is projected that by 2017 this figure will reach USD10.096 billion, exceeding USD10 billion for the first time.

Ever since 1975, DNA sequencing technology has been through four generations, but the fourth-generation technology—Nanopore sequencing is still under development. Due to technologies and costs, the second-generation high-throughput sequencers are the mainstream sequencing platform around the world, with its total number occupying over 95% of next-generation DNA sequencers worldwide.



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The upstream sectors of DNA sequencing industry are extremely robust, with the global market dominated by the second-generation DNA sequencing enterprises including Illumina, Thermo Fisher Scientific (through Life Technologies), Roche and the third-generation sequencing enterprises such as Pacific Biosciences. A review of these giants' development history shows that mergers and acquisitions are the main driving forces behind the great market power. In February 2014, Thermo Fisher Scientific acquired Life Technologies for USD13.6 billion, making it the industry giant second only to Illumina.

In China, the upstream sectors of DNA sequencing industry are virtually monopolized by foreign giants. BGI is the leader in China's DNA sequencing service, and its second-generation DNA sequencers top the global chart in number. However, two of its sequencers—HiSeq 2000 and Ion Proton were entirely from Illumina and Life Technologies. In March 2013, BGI acquired Complete Genomics, a sign that BGI formally ventured into the upstream sectors of DNA sequencing industry. In June 2014, BGI's two products—BGISEQ-1000 and BGISEQ-1000 became the first second-generation DNA sequencers registered in China.

It is expected, however, that within the next five years the weak position of Chinese enterprises in upstream sectors will remain unchanged except for the epic M&A.

Global and China DNA Sequencing Industry Research Report, 2014-2017 mainly focuses on the followings:

- >Features, cost, etc. of DNA sequencing technology;
- Major M&As, genetic database, market size and structure, etc. of global DNA sequencing industry;
- Development, industry policies, market structure and prospects, etc. of DNA sequencing industry in China;
- Operation, DNA sequencing business, etc. of 12 enterprises at home and abroad.

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Table of contents

 Overview of DNA Sequencing Industry 1.1 Definition 2 Industry Chain 3 Application 4 Development History and Technical Features 5 Cost Global DNA Sequencing Industry Industry Chain Layout of Major Enterprises Major M&As Genetic Database Sequencer Market Size and Prospects China DNA Sequencing Industry Development Policy Environment Market Structure A Sequencer Service Prospects 4. Key Enterprises	4.1.3 Revenue Structure 4.1.4 Gross Margin 4.1.5 R&D and Investment 4.1.6 DNA Sequencing 4.1.7 Development Prospects 4.2 Thermo Fisher Scientific 4.2.1 Profile 4.2.2 Operation 4.2.3 Revenue Structure 4.2.4 Operating Margin 4.2.5 R&D and Investment 4.2.6 DNA Sequencing 4.2.7 Development in China 4.2.8 Development Prospects 4.3 BGI 4.3.1 Profile 4.3.2 Operation 4.3.3 DNA Sequencing 4.4 Roche 4.4.1 Profile 4.4.2 DNA Sequencing 4.5 Qiagen 4.5 Qiagen 4.5.1 Profile 4.5.2 Operation 4.5.3 Revenue Structure	4.6.2 Operation 4.6.3 Revenue Structure 4.6.4 R&D 4.6.5 DNA Sequencing 4.7 Sequenom 4.7.1 Profile 4.7.2 Operation 4.7.3 Revenue Structure 4.7.4 Operating Margin 4.7.5 R&D 4.7.6 DNA Sequencing 4.8 DAAN Gene 4.8.1 Profile 4.8.2 Operation 4.8.3 Revenue Structure 4.8.4 Gross Margin 4.8.5 R&D 4.8.6 DNA Sequencing 4.8.7 Development Prospects 4.9 Agilent Technologies 4.9.1 Profile 4.9.2 Operation 4.9.3 Revenue Structure 4.9.4 R&D
4.1 Illumina	4.5.4 R&D	4.9.5 DNA Sequencing
4.1.1 Profile	4.5.5 DNA Sequencing 4.6 Pacific Biosciences	4.10 Berry Genomics4.11 Hunan China Sun Pharmaceutical Machinery
4.1.2 Operation	4.6 Pacific Biosciences 4.6.1 Profile	4.12.1 Profile

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Selected Charts

- DNA Sequencing Industry Chain
- DNA Sequencing Technology Application by Field
- Features of DNA Sequencing Technology and its Advantage and Disadvantage by Generation
- Trend in Sequencing Cost per Genome, 2001-2014
- Trend in Sequencing Cost per Megabase, 2001-2014
- Industry Chain Distribution of Major Global DNA Sequencing Enterprises
- Major M&As in Global DNA Sequencing Industry, 2007-2014
- Trend in The DDBJ Nucleotide Sequence Database, 2002-2014
- Trend in The DDBJ Nucleotide Sequence Database Structure, 2002-2014
- Top 30 DDBJ Organisms by Number of Nucleotides as of Mar. 2014
- Next-generation DNA Sequencing Data of GenBank, 2008-2014
- Worldwide Top 30 Countries or Regions with Next-generation DNA Sequencer by Number of Centers as of Sept. 2014
- Global Next-Generation DNA Sequencer Distribution by Center as of Sept. 2014
- Global Next-Generation DNA Sequencer Market Structure by Product as of Sept. 2014
- Global Next-Generation DNA Sequencing Market Structure by Enterprise as of Sept. 2014
- Global Next-Generation DNA Sequencing Market Structure by Number of Generation as of Sept. 2014
- Global Next-Generation DNA Sequencer Distribution by Region as of Sept. 2014
- Worldwide Top 30 Countries or Regions by Number of Next-Generation DNA Sequencers as of Sept. 2014
- Next-Generation DNA Sequencer Market Structure of Global Genome Centers by Product as of Sept. 2014
- Top 10 Global Genome Centers by Number of Next-Generation DNA Sequencers as of Sept. 2014
- Global DNA Sequencing Market Size and YoY Growth, 2009-2017E
- Global DNA Sequencing Market Structure by Type, 2013
- Global DNA Sequencing Market Structure, 2017E
- Global DNA Sequencing Target Market Potential
- Policies on China DNA Sequencing industry, 2012-2014

Selected Charts

- China Next-generation DNA Sequencer Proportion in Global Market as of Sept. 2014
- Revenue and Net Income of Illumina, 2007-2014
- Revenue Structure of Illumina by Business, 2007-2013
- Revenue Breakdown of Illumina by Region, 2007-2013
- Gross Margin Trends of Illumina, 2007-2014
- R&D Costs and % of Total Revenue of Illumina, 2007-2014
- Illumina's M&A History, 2007-2014
- Illumina's DNA Sequencers and Consumables (by Type) and Their Application
- Revenue and Net Income of Illumina, 2014-2017E
- Revenue and Net Income of Thermo Fisher Scientific, 2009-2014
- Revenue Breakdown of Thermo Fisher Scientific by Business, 2009-2014
- Revenue Breakdown of Thermo Fisher Scientific by Region, 2010-2013
- Operating Margin of Thermo Fisher Scientific by Business, 2009-2014
- R&D Costs and % of Total Revenue of Thermo Fisher Scientific, 2009-2014
- Revenue and YoY Growth of Life Technologies, 2009-2013
- Revenue and YoY Growth of Thermo Fisher Scientific in China, 2009-2013
- Revenue and Net Income of Thermo Fisher Scientific, 2014-2017E
- Revenue and YoY Growth of BGI, 2007-2013
- Events of BGI's DNA Sequencing Industry Layout, 1999-2014
- Roche's Revenue from Molecular Diagnosis and % of Total Revenue, 2009-2014
- Roche's Newly-released DNA Sequencing Products, 2012-2013
- Revenue and Net Income of Qiagen, 2009-2014
- Revenue Breakdown of Qiagen by Business, 2009-2014
- Revenue Structure of Qiagen by Application, 2011-2014
- Revenue Breakdown of Qiagen by Region, 2009-2013
- R&D Costs and % of Total Revenue of Qiagen, 2009-2014

Selected Charts

- Revenue and Net Income of Pacific Biosciences, 2009-2014
- Revenue Breakdown of Pacific Biosciences by Region, 2009-2013
- R&D Costs and % of Total Revenue of Pacific Biosciences, 2009-2014
- Pacific Biosciences' Revenue from DNA Sequencing by Product, 2011-2014
- Revenue and Net Income of Sequenom, 2009-2014
- Revenue Breakdown of Sequenom by Segment, 2009-2014
- Revenue Breakdown of Sequenom by Region, 2009-2013
- Operating Margin of Sequenom by Segment, 2009-2014
- R&D Costs and % of Total Revenue of Sequenom, 2009-2014
- Sequenom's Revenue from Gene Analysis by Segment, 2010-2013
- Revenue and Net Income of DAAN Gene, 2009-2014
- Revenue Breakdown of DAAN Gene by Business, 2009-2014
- Revenue Breakdown of DAAN Gene by Region, 2009-2014
- Gross Margin of DAAN Gene by Business, 2009-2014
- R&D Costs and % of Total Revenue of DAAN Gene. 2009-2014
- Revenue and Net Income of Agilent Technologies, FY2009-FY2014
- Revenue Breakdown of Agilent Technologies by Business, FY2011-FY2014
- Revenue Breakdown of Agilent Technologies by Region, FY2011-FY2013
- R&D Costs and % of Total Revenue of Agilent Technologies, 2009-2014
- Revenue and Net Income of DAAN Gene, 2014-2017E
- Major Events of Berry Genomics, 2010-2014
- DNA Sequencing Products of Berry Genomics
- Revenue and Net Income of Hunan Honghao Gene, 2012-2014
- Hunan Honghao Gene's Medical Devices Registered Based on Gene Chip, 2012-2014
- Revenue and Net Income of Jilin Zixin Pharmaceutical Industrial, 2009-2014
- Development History of DNA Sequencing of Jilin Zixin Pharmaceutical Industrial, 2010-2014

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