

2018-2023 Global Whole Exome Sequencing Market Report (Status and Outlook)

<https://marketpublishers.com/r/20DEDBAF40DEN.html>

Date: June 2018

Pages: 118

Price: US\$ 4,660.00 (Single User License)

ID: 20DEDBAF40DEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information studies the present scenario (with the base year being 2017) and the growth prospects of global Whole Exome Sequencing market for 2018-2023.

Exome sequencing is a capture based method developed to identify variants in the coding region of genes which affect protein function. While exome capture methods using PCR, hybrid capture and molecular inversion probes exist, the most common and efficient strategies are in-solution capture methods. In-solution capture utilizes pools of oligonucleotides or probes bound to magnetic beads, whose sequence has been designed to hybridize to exon regions. After binding to genomic DNA, these probes are pulled down and washed, allowing exon regions to be selectively sequenced.

While there are approximately 180,000 exons in the human genome, constituting less than 2% of total sequence, the exome contains ~80-90% of known disease causing variants making it a cost-effective alternative to whole genome sequencing. When performing exome-seq, users should not only consider average on-target coverage but also the local coverage of particular sites of interest. When choosing between exome and whole genome sequencing (WGS), consider that exome sequencing has the advantage that oligonucleotides are designed to particular genomic regions where typical coverage with WGS is not enough for SNP calling. It is also more affordable enabling the analysis of more individuals and populations. With WGS, you can detect variants in regions not covered by exome capture allowing or the identification of structural and non-coding variants associated with disease.

The consumption of whole exome sequencing has exceeded 120 K samples per year. Whole exome sequencing is mainly produced by American companies. Mainly largest

producers in the world are located in US.

The demand of whole exome sequencing service is very strong in Chinese market, especially in Beijing, Guangzhou and Shanghai. These cities have become the fastest-growing areas, because these cities continue to improve basic health care and scientific research.

Over the next five years, LPI(LP Information) projects that Whole Exome Sequencing will register a 14.8% CAGR in terms of revenue, reach US\$ 400 million by 2023, from US\$ 180 million in 2017.

This report presents a comprehensive overview, market shares and growth opportunities of Whole Exome Sequencing market by product type, application, key companies and key regions.

To calculate the market size, LP Information considers value generated from the sales of the following segments:

Segmentation by product type:

Agilent HaloPlex

Agilent SureSelect

Illumina TruSeq Exome

Roche Nimblegen SeqCap

MYcroarray MYbaits

Segmentation by application:

Correlation Research of Normal Human

Mendelian Disease and Rare Syndrome Gene Discovery

The Research of Complex Diseases

Mouse Exome Sequencing

We can also provide the customized separate regional or country-level reports, for the following regions:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Illumina

Thermo Fisher

Roche

Angilent

Eurofins

Sengenics

Ambry

Macrogen

BGI

Novo Gene

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key players and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Whole Exome Sequencing market size by key regions/countries, product type and application.

To understand the structure of Whole Exome Sequencing market by identifying

its various subsegments.

Focuses on the key global Whole Exome Sequencing players, to define, describe and analyze the value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Whole Exome Sequencing with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the size of Whole Exome Sequencing submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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