

Whole Exome Sequencing Market by Product (Systems, Kits (Library Preparation, Target Enrichment), by Services (Sequencing), by Technology (Sequencing by Synthesis), by Application (Cancer, Monogenic disorders) - Global Forecast to 2018

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Abstracts

The applications of whole exome sequencing (WES) technologies have witnessed growth in recent years, which can be primarily attributed to the availability of advanced systems as well as the low cost of conducting exome sequencing, as compared with that of whole genome sequencing. The technological advancement is evident from the number of improved versions of existing sequencers released in recent years. For instance, in January 2014, the leading player in the whole exome sequencing market, Illumina, Inc. (U.S.), launched its NextSeq 500 System, which combines high-throughput performance with an affordable desktop form factor. This system is expected to enable researchers to perform sequencing in less than a day.

The major factors driving the growth of this market include its low cost and high speed, increase in applications areas for exome sequencing technologies, global alliances amongst leading research institutes to boost drug discovery, and the entry of new players in the whole-exome sequencing market. However, the high cost of instruments, the need for skilled professionals and high reliability on grants are hindering the market's growth.

The services segment has the largest share of the global whole exome sequencing market, since it has a variety of applications in all areas, including diagnostics, drug discovery and development, personalized medicine, and agriculture and animal

research. Diagnostics emerged as the largest whole exome sequencing application, primarily because of an increase in the usage of exome sequencing technologies in cancer and rare disease research.

In the years to come, the whole exome sequencing market is expected to experience high growth in Asia, particularly in China and India. These countries will serve as new revenue pockets for whole exome sequencing products and services companies. High growth in these regions can be attributed to growth in the pharmaceutical and biotech industry and crop research, increased funding scenarios and collaborations with established market players. U.S. and Europe are witnessing steady growth owing to new applications in diagnostics, applied markets, and technological advancements in these regions. Rest of the world (RoW) includes regions such as Latin America, Africa, the Middle East, and Pacific countries, which have increased focus on research and gaining funds, thus increasing the potential for whole exome sequencing in these regions.

While the global whole exome sequencing products market witnesses low competitive intensity, competition is strong in the services market, with few big firms and many small companies in the fray offering similar services. These companies adopt various strategies (innovations, acquisitions, and geographic expansions) to increase their market shares and establish a strong foothold in the global market.

Reasons to Buy the Report:

The report will enrich both established firms as well as new entrants/smaller firms to gauge the pulse of the market, which in turn will help firms garner a greater market share. Firms purchasing the report could use any one or a combination of the below mentioned five strategies (market penetration, product development/innovation, market development, market diversification, and competitive assessment) for strengthening their market shares.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on the product portfolios of and services offered by top players in the whole exome sequencing market. The report analyzes the whole exome sequencing market by products and services

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the whole

exome sequencing market

Market Development: Comprehensive information about the lucrative emerging markets. The report analyzes markets for various whole exome sequencing technologies and services across geographies

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the whole exome sequencing market

Competitive Assessment: In-depth assessment of market shares, strategies, products and services, distribution networks, and manufacturing capabilities of leading players in the whole exome sequencing market

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