

Next Generation Sequencing (NGS) Market by Platforms (Illumina HiSeq, MiSeq, HiSeqX Ten, NextSeq 500, Thermo Fisher Ion Proton/PGM), Bioinformatics (Exome Sequencing, RNA-Seq, ChIP-Seq), Technology (SBS, SMRT) & by Application (Diagnostics, Personalized Medicine) – Global Forecast to 2020

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Abstracts

The global next generation sequencing market is dynamic and witnessing many changes with new products being introduced. The global NGS market will be worth \$2.5 billion in 2014 and is poised to reach \$8.7 billion by 2020.

The NGS market segments such as pre-sequencing products and services, NGS platforms, sequencing services and data analysis/bioinformatics are rapidly growing markets. The overall NGS market is flourishing by continuous innovations and developments in the market aimed at higher throughput, increased accuracy, and affordable costs. Developments in the pre-sequencing, cloud computing, and NGS bioinformatics solutions are major opportunities for this market.

NGS services market is one of the key segments in the NGS market which is estimated to grow at a CAGR of 24.0% by 2020. The growth is driven by increasing demand in diagnostics and pharmaceutical and biotechnology companies.

Sequencing by Synthesis technology will be the fastest growing technology in the coming years. SBS technology has wide applications in the NGS market and can be used for both single read and pair end libraries. Hence the demand for platforms such as HiSeq X Ten, NextSeq 500 and MiSeq is also high.

Presequencing products and services market will also witness high growth and is estimated to grow at 23.5% CAGR in the next six years. The growth can be attributed to the increasing demand for presequencing consumables and instruments as the quality of the end product depends on the presequencing treatment. The growing need for standardized sample preparation solutions and increasing automation in the pre-sequencing workflow step are drivers of this market.

The study is confined to platforms, consumables and services provided by top 4 companies, Illumina, Thermo Fisher (Life Technologies), Roche and Pacific Biosciences. It does not include other NGS platforms and miscellaneous consumables/reagents offered by other companies. Also, market estimation does not consider upcoming technologies or platforms.

This research report covers end-to-end market for NGS in terms of the workflow; presequencing, NGS platforms, consumables and services, sequencing services and bioinformatics market. From an insight perspective, this research report focuses on the qualitative data, market size, share, and growth of various segments and sub-segments, competitive landscape, and company profiles. The qualitative data covers various levels of industry analysis, such as market dynamics (drivers, restraints, opportunities, and threats), and technological trends, globally. The report also offers market shares, sizes, and related growth of various segments in the industry. It also focuses on the emerging and high-growth segments of the patient monitoring market, high-growth regions, and the initiatives of their respective governments.

The competitive landscape covers the growth strategies adopted by industry players in the last three years. The company profiles comprise the basic views on the key players in the patient monitoring market and the product portfolios, developments, and strategies adopted by market players to maintain and increase their market shares in the near future.

The above-mentioned market research data, current market size, and forecast of future trends will help the key players and new entrants to make the necessary decisions regarding product offerings, geographic focus, change in strategic approach, R&D investments for innovations in products and technologies, and levels of output in order to remain successful.

The report provides insights on the following points:

Market Penetration: Comprehensive information on product portfolios of the top players in the NGS market. The report analyzes the next generation sequencing market by product, application, end user, and geography

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

Competitive Assessment: In-depth assessment of the market strategies, geographical and business segments, and product portfolios of the leading players in the global NGS market

Market Development: Comprehensive information about the lucrative emerging markets. The report analyzes the market for various NGS sequencing products across geographies

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

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About

Objectives Of The Study:

To define, describe, and forecast the global next-generation sequencing market on the basis of products, technologies, applications, and end users

To provide a detailed information regarding the major factors influencing the growth of the market (drivers, restraints, opportunities, industry specific challenges, winning imperatives, and burning issues)

To strategically analyze micromarkets¹ with respect to individual growth trends, future prospects, and contributions to the overall market

To analyze the opportunities in the market for stakeholders and details of the competitive landscape for market leaders

To forecast the revenue of market segments with respect to four main geographies, namely, North America, Europe, Asia, and Rest of the World

To strategically profile key players and comprehensively analyze their market shares and core competencies²

To track and analyze competitive developments such as joint ventures, mergers and acquisitions, new product developments, and research and development in the nextgeneration sequencing market

The study covers the market of four major product segments of global next-generation sequencing (NGS) market, namely, pre-sequencing products and services, sequencing platforms, sequencing services, and data analysis/bioinformatics. The market is also segmented into technologies, applications, and end users.

The definition of the NGS products and services for this market study is as follows: Next-generation sequencing refers to non-Sanger-based high-throughput DNA sequencing technologies. Millions or billions of DNA strands can be sequenced in parallel, yielding substantially more throughput and minimizing the need for the fragment-cloning methods that are often used in Sanger sequencing of genomes.

In the report, three types of services are considered:

Post-purchase Services (For Platforms)

Sequencing Services

Data Analysis Services

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