

# **Targeted DNA/RNA Sequencing Market Analysis By Technology (NGS, Exome Sequencing Seq., Enrichment Seq., Amplicon Seq., Sanger Seq.), By Workflow, By Application, By Type, By End-use, And Segment Forecasts, 2014 - 2025**

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## **Abstracts**

The global targeted DNA/RNA sequencing market is expected to reach USD 15.9 billion by 2025, according to a new report by Grand View Research, Inc. Targeted Sequencing has emerged as a key technology in life science research by enabling examination of specific region of interest while keeping the seq. cost as well as complexity of data under manageable limits.

This approach enhances sequencing depth by allowing evaluation of specific coding regions within genes or specific genes, which are known to harbor mutations for disease pathogenesis. Several research projects have employed this technology to avoid wastage of information and extra cost and study only relevant genes. Number of such projects continue to grow, consequently driving the market.

Innovations to address the pitfalls of targeted enrichment method are anticipated to enhance the usage rate of this technology throughout the forecast period. Moreover, with decrease in seq-cost and improvement in informatics, targeted methods have become more accessible for use in clinical settings than ever.

Further key findings from the report suggest:

Next-Generation Sequencing (NGS) technology captured a major share in 2016

Rapid advancements in NGS and its ancillary protocols can be attributed to the

growth of this segment

Out of all the NGS-based targeted methods, exome-seq held the largest share

This can be attributed to the fact that though it accounts for less than 2% of the genome, it contains 85% of the known disease-relevant variants

Entire targeted approach is broken down into presequencing, sequence determination, and data analysis

Being the most crucial step, sequencing accounted for the largest share

This space has revolutionized various applications of life sciences, including human biomedical research, plant & animal sciences, drug discovery, and others

Out of all, human biomedical research is estimated to be the largest application of this space due its high usage in studying disease pathogenesis

The market is bifurcated into DNA-seq and RNA-seq, based on the sample type

DNA-sequencing has been estimated to generate the higher revenue over its counterpart segment. This can be attributed to the presence of wide range of products and kits for DNA-seq

As per end use, academic research is estimated to be the largest segment owing to the increase in seq-based projects at universities and other academic centers

North America held the largest share owing to the presence of effective regulations pertaining to approval of genetic tests and bioinformatics tools

Moreover, the U.S. is observed to have highest number of installed sequencers, which in turn, has contributed to the large share of North America regional market

Asia Pacific is expected to emerge as the fastest growing regional market

Rise in genome-based projects coupled with constant GDP growth in Asian

countries is expected to drive the Asia Pacific market

Illumina, Inc.; F. Hoffmann-La Roche Ltd; QIAGEN, Thermo Fisher Scientific, Inc.; and Oxford Nanopore Technologies are some of the major companies operating in this space

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