The completion of human genome project resulted in discovery of several human disease causing genes. This discovery has further led to the evolution of DNA diagnostic platforms and resulted in the transformation of DNA diagnostics platforms from a research based activity into a major professional or commercial activity. The transformation is majorly attributed to the rapid...
pace of technological advances followed by development of robust methodologies such as polymerase chain reaction (PCR), microarrays, novel gene sequencing and others. DNA based diagnostic methods facilitate the mutation detection, identification of disease causing genes, diagnosis of monogenic disorders, etc. In addition, these platforms are employed in prenatal diagnosis to determine mutations and genetic disorders and also is used in the preimplantation diagnosis. Preimplantation diagnosis involves the detection of mutation in the 8 cell stage embryo before implantation and is possible due to development of combined technologies such as in vitro fertilization (IVF), PCR and Fluorescent In Situ Hybridization (FISH). All these aforementioned factors prove that DNA diagnostics market holds immense growth potential in the near future.
DNA diagnostics market can be segmented based on the technology, application and geography. PCR, microarrays, lab-on-chip or biochips and in situ hybridization technologies are some of the major DNA technologies employed in several genetic tests. Biomarkers play a very important role in the identification of disease-causing genes and oncology is one of the major areas benefitted by biomarkers. DNA microarrays are used to identify the patients at high risk of acquiring disease, determine the effectiveness of the treatment and patient’s response to the treatment. Pre/post-natal genetic testing, oncology, infectious disease testing, forensics and pharmacogenomics are
some of the applications of the DNA diagnostics market. Oncology is one of the major application areas of the DNA diagnostics due to increasing demand for the clinical applications of DNA-based tests. Also, the market can be analyzed with respect to four major geographies namely North America, Europe, Asia-Pacific and Rest of the World (RoW).

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Some of the major factors driving the growth of DNA diagnostics market are continuous product modifications, technological advances, increased preference for efficient diagnostics platforms and increased research and development activities. However, high costs involved in the development of the tests followed by reimbursement concerns of these tests might restrain
the growth of the market. Some of the major players competing in this market are Abbott Laboratories, Thermo Fisher Scientific, Affymetrix, Inc., Illumina, Inc., and F.Hoffmann La Roche Ltd.

This research report analyzes this market depending on its market segments, major geographies, and current market trends. Geographies analyzed under this research report include

- North America
- Asia Pacific
- Europe
- Rest of the World
This report provides comprehensive analysis of

- Market growth drivers
- Factors limiting market growth
- Current market trends
- Market structure
- Market projections for upcoming years

This report is a complete study of current trends in the market, industry growth drivers, and restraints. It provides market projections for the coming years. It includes analysis of recent developments in technology, Porter’s five force model analysis and detailed profiles of top industry players. The report also includes a review of micro and macro factors essential for the existing market players and new entrants along with detailed value chain analysis.
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