Next-Generation Sequencing (NGS) Market by Platforms (HiSeq, MiSeq, HiSeq X Ten/X Five, Nextseq500, Ion Proton, PGM, IonS5, PacBio & Sequel), Services (Targeted Sequencing, De novo), Application (Diagnostic, Drug Discovery) - Global Forecasts to 2021

Description:

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.

The ability to sequence DNA opened up abundant application avenues for NGS technologies in scientific research including personalized medicine, cancer research, drug discovery, biomarker discovery, and agricultural & animal sciences.

The major drivers for the NGS market include the technological advancements in NGS products, increasing applications of NGS, entry of new market players, and increasing partnerships & collaborations among market players as well as growing incidences of cancer, inherited rare disorders, and pre- and neo-natal disorders.

This report broadly segments the global NGS market into products & services, technology, application, and end user. The NGS market, by products & services is segmented into pre-sequencing products & services, NGS platforms, consumables, sequencing services, data analysis/bioinformatics. The pre-sequencing products & services segment if further categorized into DNA fragmentation, End repair, A-tailing, & size selection; library preparation & target enrichment; and quality control.

The NGS platforms segment is sub-segmented into HiSeq Series, MiSeq Series, HiSeq X Ten & X Five, NextSeq500, Ion PGM, Ion Proton, Ion S5 & S5 XL, PacBio RS II, and Sequel System. Based on applications, the sequencing services market is segmented into targeted sequencing, whole-genome sequencing, exome sequencing, RNA-Seq, De novo sequencing, Methyl-Seq, and ChiP-seq.

The technologies for next generation sequencing market include sequencing by synthesis (SBS), ion semiconductor sequencing, sequencing by ligation (SBL), pyrosequencing, and single-molecule real-time (SMRT) sequencing. The end users of NGS market include research centers & academic/government institutes, hospitals & clinics, pharmaceutical & biotechnology companies, and others (non-profit organizations & agrigenomics organizations).

Based on region, the next generation sequencing market is segmented into North America, Europe, Asia-Pacific, and the Rest of the World (RoW).

The major players in the global next generation sequencing market are Illumina, Inc. (U.S.); Thermo Fisher Scientific, Inc. (U.S.); Pacific Biosciences of California, Inc. (U.S.); Roche Holding AG (Switzerland); QIAGEN N. V. (Germany); BGI (China), Macrogen Inc. (South Korea); Eurofins Scientific (Luxembourg); and Oxford Nanopore Technologies, Ltd. (U.K.).

Scope of the Report

This report categorizes the global next generation sequencing market into the following segments:

- Global Next-generation Sequencing Market (NGS), by Products and Services
  -- Pre-sequencing Products and Services
  -- DNA Fragmentation and Size Selection
  -- Library Preparation & Target Enrichment
  -- Quality Control
  -- NGS Platforms, Consumables/Reagents, and Services
  -- Illumina
--- HiSeq Series
--- HiSeq X Ten & HiSeq X Five
--- MiSeq Series
--- NextSeq 500
-- Life Technologies (Thermo Fisher)
--- SOLiD Series
--- Ion PGM (Personal Genome Machine)
--- Ion Proton
--- Ion SS & Ion SS XL
-- Pacific Biosciences
--- PacBio RS II
--- Sequel System
-- Other Platforms
- Sequencing Services
- NGS Data Analysis/Bioinformatics
-- By Product
--- NGS Data Analysis Software and Workbenches
--- NGS Data Analysis Services
--- NGS Storage Management and Cloud Computing Solutions
-- By Application
--- Whole-genome Sequencing
--- Exome Sequencing
--- Targeted Resequencing
--- De Novo Sequencing
--- RNA Sequencing
--- ChiP Sequencing
--- Methyl Sequencing
--- Others

Global next generation sequencing Market, by Technology

- Sequencing by Synthesis (SBS)
- Ion Semiconductor Sequencing
- Sequencing by Ligation (SBL)
- Pyrosequencing
- Single-Molecule Real-time (SMRT) Sequencing
- Other Technologies

Global next generation sequencing Market, by Application

- Diagnostics
- Drug Discovery
- Biomarker Discovery
- Personalized Medicine
- Agriculture and Animal Research
- Others

Global next generation sequencing Market, by End User

- Research Centers & Academic/Government Institutes
- Hospitals & Clinics
- Pharmaceutical & Biotechnology Companies
- Others

Global next generation sequencing Market, by Region

- North America
- Europe
- Asia-Pacific
- Rest of the World

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