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Nanopore Technologies Market by Product (Instruments and Consumables), Application (DNA Sequencing and RNA Sequencing), and End User (Hospitals & Clinics, Research Institutes, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2030

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Abstracts

The global nanopore technologies market was valued at $1,74,388.2 thousand in 2020, and is projected to reach $6,80,872.4 thousand by 2030, registering a CAGR of 14.40% from 2021 to 2030

Nanopore sequencing is one of the techniques of third generation that is used in the sequencing of biopolymers, involving polynucleotides in the form of DNA or RNA and other components. Nanopore sequencing is a technique to analyze single molecule DNA or RNA that can be sequenced without the need for PCR amplification or chemical labeling of the sample. Furthermore, this sequencing has the potential to offer relatively lesser cost of genotyping, higher mobility for testing, and quick processing of samples with the ability to show results in real time. This is one of the latest generations in sequencing technologies, which helps in determining the order of nucleotides in DNA or in RNA. This technology can be used for measuring fluctuations in an electric current as the molecule passes through a nanopore, thus helping to identify the sequence of the given nucleic acid

Increase in R&D on nanopore technologies such that they can be used for novel viruses is expected to help the market gain traction during the forecast period. The increase in demand for DNA sequencing for various application for research would help the nanopore technologies market gain traction during the forecast period and increase in

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the use of epigenetics for the development of newer treatment methods propel the growth of the market. The introduction of Internet of Things benefits the nanopore technology, as sequencers can be easily connected to other technical systems, which will help healthcare professionals monitor the DNA sample on shared cloud computing labs and is anticipated to aid the market grow in the forecast period. This convergence of numerous technologies such as ultrafast nanopore sequencing, biosensors, the Internet of things (IoT), cloud computing, computational intelligence algorithms, and other related technologies would gradually expanding the applications of genomics to a wider range of needs. In addition, Nanopore-based sequencers, as the fourth-generation DNA sequencing technology, have the potential to quickly and reliably sequence the entire human genome for less than USD1000, and possibly for even less than USD100. The single-molecule techniques used by this technology allow to further study the interaction between DNA and protein, as well as between protein and protein.

However, issues faced to maintain the integration and structure of the nucleotide bases hinder the growth of the nanopore technologies market. Conversely, surge in use of nanopore technologies for fourth generation DNA sequencing is anticipated to offer lucrative opportunity for the market growth in the coming years. Nanopore-based sequencers, as the fourth-generation DNA sequencing technology, have the potential to quickly and reliably sequence the entire human genome for less than USD 1000, and possibly for even less than USD 100. This decrease in cost of nanopore technologies for the use in analysis of the type of sequence, will gain attention of majority of healthcare professions and hence will help the market gain traction during the forecast period.

The global nanopore technologies market is segmented into product, application, and region. On the basis of product, the market is categorized into instruments and consumables. The instruments segment is further segregated into portable and benchtop. The applications covered in the study include DNA sequencing and RNA sequencing. On the basis of end users, the market is segregated into hospitals & clinics, research institutes and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

North America is expected gain its dominance during the forecast period, owing to increase in demand for nanopore technologies, surge in incidences of viral diseases, and presence of major key players across the region. In addition, the surge in targeted patient population would contribute towards growth of nanopore technologies in the North American region. Higher healthcare expenditure and surge in favorable government policies for research in nanopore technologies are expected to propel the

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growth of the market in the coming years. Moreover, Asia-Pacific and LAMEA are expected to offer lucrative opportunities to key players during the forecast period, owing to surge in number of hospitals equipped with nanopore technology modalities, coupled with huge surge in utilization of nanopore technologies. In addition, surge in geriatric population who are susceptible to suffer from viral diseases would propel the market growth in the next few years.

KEY BENEFITS FOR STAKEHOLDERS

The study provides an in-depth analysis of the market along with the current trends and future estimations to elucidate the imminent investment pockets.

It offers a quantitative analysis from 2020 to 2030, which is expected to enable the stakeholders to capitalize on the prevailing market opportunities.

A comprehensive analysis of factors that drive and restrain the growth of the market is provided.

The profiles and growth strategies of the key players are thoroughly analyzed to understand the competitive outlook of the market.

KEY MARKET SEGMENTS

By Product

Instruments

Portable

Benchtop

Consumables

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By Application

- DNA Sequencing
- RNA Sequencing

By End User

- Hospitals & Clinics
- Research Institutes
- Others

By Region

- North America
  - U.S.
  - Canada
  - Mexico
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe

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- Asia-Pacific
  - Japan
  - China
  - India
  - Australia
  - South Korea
  - Rest of Asia-Pacific
- LAMEA
  - Brazil
  - Saudi Arabia
  - South Africa
  - Rest of LAMEA

LIST OF KEY PLAYERS PROFILED IN THE REPORT

- Cyclomics
- Electronic Biosciences, Inc.
- Grandomics
  - INanoBio Inc.
- Qitan Technology
- Quantapore, Inc.

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Nabsys, Inc.

Nonacus, Inc.

ONTERA, Inc.

Oxford Nanopore Technologies

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