

Nanopore Technologies Market Report by Product (Instruments, Consumables), Application (DNA Sequencing, RNA Sequencing, and Others), End User (Hospitals and Clinics, Research Institutes, and Others), and Region 2024-2032

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Abstracts

The global nanopore technologies market size reached US\$ 276.4 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 753.6 Million by 2032, exhibiting a growth rate (CAGR) of 11.4% during 2024-2032.

Nanopore technology refers to the next-generation molecule sequencing of single-molecule deoxyribonucleic acid (DNA) without the need for polymerase chain reaction (PCR) amplification and chemical labeling of the sample. It offers a relatively high throughput and low-cost genotyping, high mobility for testing, rapid processing of samples in real-time, and label-free, ultralong reads. It is used as a diagnostic tool to provide a fast analysis, eliminate cumbersome amplification and conversion steps, and detect target molecules at very low concentrations and screen panels of biomarkers or genes. Nowadays, the read quality of nanopore technology has improved significantly on account of the introduction of advanced nanopore proteins and chemistries.

Nanopore Technologies Market Trends:

The outbreak of the coronavirus disease (COVID-19), in confluence with the urgent need to develop a potential treatment, represents one of the key factors driving the need for nanopore technologies worldwide. Researchers are extensively relying on these technologies to generate data, ranging from initial characterization of the virus genome to the rapid identification of variants, essential to combating the spread of the pandemic. Apart from this, the increasing prevalence of cancer among a significant part

of the population due to the rising number of individuals who smoke, drink, and have obesity and chronic inflammation is contributing to the market growth. Nanopore technologies are used in oncology settings for facilitating cancer diagnosis and treatment through the detection and accurate quantification of microRNA. In addition, leading market players are introducing a new generation of sensing technology that uses nanopores embedded in high-tech electronics to perform precise molecular analyses. This technology is gaining widespread adoption in applied settings, such as clinical diagnostics, epidemiology, food safety, agriculture, and environmental science. Such innovations are projected to influence the market positively.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global nanopore technologies market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product, application and end user.

Breakup by Product:

- Instruments

- Portable

- Benchtop

- Consumables

Breakup by Application:

- DNA Sequencing

- RNA Sequencing

- Others

Breakup by End User:

Hospitals and Clinics

Research Institutes

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Cyclomics BV, Electronic Biosciences Inc., Inanobio Inc., Nabsys Inc., Ontera Inc., Oxford Nanopore Technologies Limited, Pacific Biosciences of California Inc., Quantapore Inc., Roche Holding AG and Tracxn Technologies Limited.

Key Questions Answered in This Report

1. How big is the global nanopore technologies market?
2. What is the expected growth rate of the global nanopore technologies market during 2024-2032?
3. What are the key factors driving the global nanopore technologies market?
4. What has been the impact of COVID-19 on the global nanopore technologies market?

5. What is the breakup of the global nanopore technologies market based on the product?
6. What is the breakup of the global nanopore technologies market based on the application?
7. What is the breakup of the global nanopore technologies market based on the end user?
8. What are the key regions in the global nanopore technologies market?
9. Who are the key players/companies in the global nanopore technologies market?

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