

Global Nanobiotechnology Market Size study & Forecast, by Product (Nanobiotechnology instruments, Nanobiotechnology services, and Nanobiotechnology products), by Application (Drug Delivery, Genomics, Proteomics, Diagnostics, and Others), by Technology (Nanoparticles, Nanotubes, Nanoshells, and Others), by End-use (Pharmaceutical and Biotechnology Companies, Academic and Research Institutes, Diagnostic Laboratories, and Others) and Regional Analysis, 2023-2030

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Abstracts

Global Nanobiotechnology Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Nanobiotechnology is a multidisciplinary field that combines nanotechnology and biology to develop novel tools, techniques, and materials for biological and medical applications. It involves the use of nanoscale materials, such as nanoparticles, nanotubes, and nanofibers, for various biological and medical purposes, including drug delivery, imaging, diagnostics, and biosensing. Nanobiotechnology is aimed at developing innovative solutions to address various challenges in healthcare, agriculture, environment, and other industries by harnessing the unique properties of nanoscale materials. The major driving factors for the Global Nanobiotechnology Market are increasing demand for advanced diagnostics and therapeutics and rising investments in R&D. Moreover, growing applications in drug delivery and increasing focus on personalized medicine are creating lucrative growth opportunities for the market over the forecast period 2023-2030.



Governments and private organizations are investing heavily in nanobiotechnology R&D, leading to the development of new technologies and products. These investments are driving the growth of the nanobiotechnology market by creating new opportunities for the development of innovative products and solutions. For instance, in November 2020, researchers at the University of Cambridge developed a new type of sensor using nanotechnology that can detect the presence of COVID-19 in wastewater before the virus spreads to the population. Along with this, in March 2021, scientists at the University of Manchester developed a new nanotechnology-based treatment for cancer that uses tiny particles called "quantum dots" to destroy cancer cells. Furthermore, in May 2021, researchers at the University of California developed a new type of nanotechnology-based vaccine that can be used against multiple strains of the flu virus. However, the high cost of Nanobiotechnology stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Nanobiotechnology Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the nanobiotechnology market in 2020, owing to the presence of established market players, well-developed healthcare infrastructure, and increasing government funding for nanobiotechnology research. The United States is the largest contributor to the nanobiotechnology market in this region. The Asia-Pacific region is expected to grow at the highest CAGR during the forecast period, due to the rising investments in R&D activities, increasing healthcare expenditure, and the growing demand for advanced diagnostic and therapeutic technologies. China, Japan, and India are the major contributors to the nanobiotechnology market in this region.

Major market players included in this report are: Thermo Fisher Scientific Inc. Abcam plc GenScript Biotech Corporation NanoTemper Technologies GmbH Agilent Technologies, Inc. Bruker Corporation Bio-Rad Laboratories, Inc. PerkinElmer, Inc. Nanosens Innovations AstraZeneca plc

Recent Developments in the Market:



In 2021, Thermo Fisher Scientific launched the Applied Biosystems Axiom Microbiome Array, a genotyping tool for the detection and analysis of microbiomes. This array uses nanobiotechnology to identify and analyze microbial communities in human, animal, and environmental samples.

Global Nanobiotechnology Market Report Scope: Historical Data – 2020 - 2021 Base Year for Estimation – 2022 Forecast period - 2023-2030 Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends Segments Covered - Product, Application, Technology, End-use, Region Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa Customization Scope - Free report customization (equivalent up to 8 analyst's working

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

hours) with purchase. Addition or alteration to country, regional & segment scope*

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product: Nanobiotechnology instruments Nanobiotechnology services Nanobiotechnology products

By Application: Drug Delivery Genomics Proteomics Diagnostics Others



By Technology: Nanoparticles Nanotubes Nanoshells Others

By End-use: Pharmaceutical and Biotechnology Companies Academic and Research Institutes Diagnostic Laboratories Others

By Region:

North America U.S. Canada

Europe UK Germany France Spain Italy

ROE

Asia Pacific China India Japan Australia South Korea RoAPAC

Latin America Brazil Mexico



Middle East & Africa Saudi Arabia South Africa Rest of Middle East & Africa



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