

Biotechnology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Report description:

Market Overview:

The global biotechnology market size reached US\$ 665.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,033.6 Billion by 2028, exhibiting a growth rate (CAGR) of 7.4% during 2023-2028.

Biotechnology is the deliberate genetic manipulation technology that uses biological processes and living organisms to develop products for specific applications, such as genetically modified food products. It involves the manufacturing of therapeutic proteins and various medications through genetic engineering. It helps improve the nutritional content of different food and prevent health problems. It allows medical researchers to research more about cancer and genetic disorders and offers medical advancement opportunities. Besides this, biotechnology is used in the agriculture industry to enhance pest resistance, grow genetically modified plants, enhance crop herbicide tolerance, and facilitate sustainable farming. At present, it finds extensive applications in chemical manufacturing, wastewater treatment, and minimizing the harmful emissions of industrial processes.

Biotechnology Market Trends:

The growing global population is leading to increasing food scarcity, which, in turn, is catalyzing the demand for biotechnology to improve crop production. In addition, the rising prevalence of chronic medical ailments and the growing need for personalized medications are positively influencing the market. Biotechnology is employed in the healthcare sector in stem cell research and cloning techniques to replace damaged cells and tissues in regenerative medicine. Additionally, the increasing number of orphan drug formulations are expanding biotechnology applications and offering lucrative growth opportunities to emerging biotechnology companies. Furthermore, various initiatives are being undertaken by governments of several countries to improvise the medication regulatory policies, standardize clinical studies, and improve reimbursement policies. This, in turn, is encouraging industry investors and offers a favorable market outlook. Moreover, increasing investments in research and development (R&D)

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activities in the field of biotechnology to understand molecular root causes of diseases and provide adequate medication and treatment are expected to propel market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global biotechnology market report, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on product type, technology, and application.

Breakup by Product Type:

- Instruments
- Reagents
- Software and Services

Based on product type, the market has been segregated into instruments, reagents, and software and services.

Breakup by Technology:

- Nanobiotechnology
- Tissue Engineering and Regeneration
- DNA Sequencing
- Cell-Based Assays
- Fermentation
- PCR Technology
- Chromatography
- Others

Based on technology, the market has been segmented into nanobiotechnology, tissue engineering and regeneration, DNA sequencing, cell-based assays, fermentation, PCR technology, chromatography, and others

Breakup by Application:

- Healthcare
- Food and Agriculture
- Natural Resources and Environment
- Industrial Processing
- Bioinformatics
- Others

Biotechnology is used in the healthcare industry due to the rising prevalence of various chronic ailments and the rising need for diagnostic tests, therapies, and medications.

Breakup by Region:

- North America
-

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- 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

North America exhibits a clear dominance in the market on account of the existence of various key players and rising expenditure on research and development (R&D) activities in the region.

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Amgen Inc., Biocon Limited, Biogen Inc., F. Hoffmann-La Roche AG, Genmab A/S, Lonza Group AG, Novartis AG, Novo Nordisk A/S, Pfizer Inc., Regeneron Pharmaceuticals Inc., Seagen Inc., Syngenta AG and Vertex Pharmaceuticals Incorporated.

Key Questions Answered in This Report:

- How has the global biotechnology market performed so far and how will it perform in the coming years?
- What has been the impact of COVID-19 on the global biotechnology market?
- What are the key regional markets?
- What is the breakup of the market based on the product type?
- What is the breakup of the market based on the technology?

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- What is the breakup of the market based on the application?
- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the industry?
- What is the structure of the global biotechnology market and who are the key players?
- What is the degree of competition in the industry?

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