

## **Biotechnology Market Report and Forecast 2025-2034**

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### **Report description:**

The global biotechnology market was valued at USD 478.50 Billion in 2024 , driven by a rising focus on personalized medicine and advancements in gene editing technologies across the globe. The market is expected to grow at a CAGR of 14.10% during the forecast period of 2025-2034, with the values likely to reach USD 1789.53 Billion by 2034. The biotechnology market is experiencing substantial growth, driven by advancements in personalized medicine, orphan drug formulations, and innovative clinical studies. Increasing investment in research, coupled with evolving regulatory frameworks, is accelerating drug discovery and development. Companies in the biotechnology market are leveraging cutting-edge technologies to enhance treatment precision, addressing rare and complex diseases. Additionally, the demand for biotechnology solutions in the market continues to rise as healthcare systems adopt novel therapeutics and biologics. The emphasis on targeted therapies, regenerative medicine, and genetic engineering is fostering industry expansion, while collaborations between academic institutions and pharmaceutical firms further propel market innovation.

The COVID-19 pandemic significantly influenced the biotechnology market, particularly in drug development and vaccine production. Rapid advancements in mRNA vaccines transformed immunization strategies, leading to accelerated approval processes for next-generation therapeutics. The unprecedented demand for COVID-19 vaccines highlighted the need for scalable and efficient biomanufacturing. Research into vaccine variants, booster vaccines, and vaccine-related technologies continues, ensuring long-term protection against evolving viruses. Governments and pharmaceutical companies worldwide prioritize investments in COVID-19 preparedness, further shaping the trajectory of vaccine innovation and biopharmaceutical advancements.

### **Biotechnology Market Trends**

Biotechnology continues to transform the agricultural sector, driving advancements in genetically modified crops, molecular breeding, and plant breeding. The market is witnessing increased adoption of tissue culturing and cloning techniques to enhance crop yield and sustainability. Agricultural applications such as micropropagation and molecular breeding play a pivotal role in improving resistance to pests and adverse environmental conditions. Genetically modified crops are widely used to meet the

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growing global food demand, while tissue culture techniques help in rapid plant multiplication. As biotechnology evolves, its impact on agricultural applications is expected to expand, fostering innovation and efficiency.

The market is witnessing rapid advancements in tissue engineering and regenerative medicine, with increasing investments in cell and gene therapies. Companies are leveraging CRISPR technology to drive innovation in gene therapy, enhancing therapeutic possibilities. Expanding clinical trial activity is fostering breakthroughs in regenerative treatments, offering hope for degenerative conditions. The growing involvement of gene therapy players in the market is expected to enhance treatment options. As research progresses, tissue engineering techniques are refined to improve regeneration, further driving advancements in personalized healthcare solutions.

The market is experiencing substantial growth due to rising cases of chronic diseases like cancer, diabetes, and neurological disorders. Expanding clinical trials focus on developing novel diabetes treatments, with pipeline products targeting metabolic disorders. Research in Alzheimer's, Parkinson's, and cardiovascular diseases is advancing, fostering biotechnology-based interventions. The increasing prevalence of diabetes has fueled research into targeted therapies. As biotechnology continues to address chronic diseases, precision medicine innovations are improving patient outcomes worldwide.

Fermentation technology is revolutionizing market growth, offering sustainable solutions across industries. The demand for bioreactors, including conventional, simplified, and vortex bioreactors, is rising due to their efficiency in large-scale production. Fermentation technology plays a crucial role in biopharmaceuticals, biofuels, and food production, significantly driving market growth. The adoption of advanced bioreactors in bioprocessing is streamlining production, reducing costs, and improving scalability. As research institutions and industries embrace fermentation technology, new opportunities emerge, strengthening biotechnology's role in healthcare and industrial applications.

The rise of CAR T and TCR T cell therapies is shaping the market, offering transformative cancer treatments. T cell therapy innovations enhance immune responses against malignancies. The COVID-19 pandemic accelerated biotechnology research, spurring immunotherapy developments. Market growth is fueled by advancements in cellular therapies targeting hematologic and solid tumors. The continuous evolution of T cell-based treatments is expected to improve clinical outcomes, offering promising options for previously untreatable conditions. Ongoing research optimizes these therapies for broader applications.

Stem cell technology is gaining traction in the market, with stem cell therapeutics advancing regenerative medicine. DNA fingerprinting is enhancing forensic applications and genetic research. Genetic engineering is revolutionizing drug development and personalized medicines. Cloning remains a crucial area of study, particularly for therapeutic applications. The market for biotechnology-driven solutions is expanding, with innovations in stem cell therapeutics reshaping treatment approaches. As biotechnology progresses, its integration with genetic engineering and personalized medicines is set to drive future growth, shaping the healthcare landscape.

#### Market Concentration & Characteristics

The biotechnology market is characterized by a mix of established industry leaders and emerging players driving innovation. Market concentration remains high, with major companies holding a significant share due to strong research capabilities, extensive patent portfolios, and robust commercialization strategies. Strategic mergers and acquisitions have further consolidated the market, enabling companies to expand their technological expertise and global reach. Despite the dominance of key players, smaller biotech firms and start-ups continue to introduce disruptive technologies, fostering a competitive environment.

Biotechnology companies invest heavily in research and development (R&D), ensuring continuous innovation in therapeutic solutions, agricultural applications, and industrial biotechnology. High entry barriers, including stringent regulatory approvals and substantial capital requirements, contribute to market concentration. However, government funding, venture capital investments,

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and public-private partnerships are supporting new entrants, driving diversification. Companies specializing in niche segments such as gene editing, personalized medicine, and synthetic biology are gaining traction, further influencing market dynamics.

The industry exhibits strong intellectual property protection, with patents playing a critical role in sustaining market leadership. Exclusive rights to biotechnological innovations enhance competitive advantages, allowing firms to capitalize on proprietary technologies. Additionally, regulatory frameworks impact market concentration, as stringent policies in drug approvals and biopharmaceutical manufacturing create challenges for smaller players. As a result, collaborations between biotech firms, academic institutions, and pharmaceutical giants are increasing to navigate these complexities and accelerate product development.

Technological advancements and globalization are reshaping the biotechnology landscape, enabling companies to expand into new markets. North America and Europe remain dominant due to well-established research infrastructure and regulatory support. Meanwhile, Asia-Pacific is emerging as a key region with growing investments in biotechnology. As market concentration evolves, increased collaborations and regulatory harmonization are expected to drive industry expansion and innovation.

#### Technology Insights

The biotechnology industry is experiencing rapid advancements across multiple technological domains, significantly influencing research, diagnostics, and therapeutics. Nano biotechnology is enabling targeted drug delivery and precision medicine, improving treatment efficacy with minimal side effects. PCR technology remains a cornerstone in molecular diagnostics, widely used for detecting infectious diseases and genetic mutations. DNA sequencing advancements are revolutionizing personalized medicine, enabling early disease detection and tailored treatment strategies. Meanwhile, chromatography plays a crucial role in biotechnology research and drug development by facilitating the purification and analysis of biomolecules. These technologies collectively enhance precision, efficiency, and scalability in biopharmaceutical innovations.

Emerging technologies like tissue engineering and regeneration are driving breakthroughs in regenerative medicine, supporting the development of bioengineered tissues and organ transplantation. Cell-based assays are becoming indispensable in drug discovery and toxicity testing, ensuring the safety and efficacy of new treatments. Fermentation technology is witnessing significant growth in biopharmaceuticals and industrial applications, optimizing large-scale production of bio-based products. DNA recombinant technology continues to be fundamental in genetic engineering, enabling the development of advanced biologics and gene therapies. Alongside these, other emerging biotechnologies are fostering innovation, transforming healthcare, agriculture, and industrial biotechnology applications.

#### Application Insights

Biotechnology is transforming multiple industries, with significant advancements in healthcare, bio-pharmacy, and bio-services. In healthcare, biotechnology plays a vital role in drug development, gene therapy, and regenerative medicine, improving patient outcomes. Bio-pharmacy focuses on biopharmaceuticals such as monoclonal antibodies, vaccines, and cell-based therapies, addressing complex diseases. Meanwhile, bio-services, including clinical research and contract manufacturing, are expanding to support drug development and regulatory compliance. Bioinformatics is revolutionizing genomics, enabling precision medicine through data-driven insights. These applications are driving the biotechnology sector, offering innovative healthcare solutions and personalized treatment strategies.

Beyond healthcare, biotechnology is advancing food & agriculture, natural resources & environment, and industrial processing. Bio-agriculture enhances crop yield and resistance through genetically modified organisms (GMOs) and molecular breeding. Sustainable solutions in industrial processing leverage fermentation and enzyme technology for biofuels, biodegradable plastics, and eco-friendly chemicals. Bio-industrial applications optimize production processes, reducing environmental impact.

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Additionally, biotechnology in natural resources & environment focuses on bioremediation, wastewater treatment, and carbon capture. These diverse applications highlight biotechnology's role in fostering sustainability, efficiency, and technological progress across multiple sectors.

## Regional Insights

North America and Europe remain dominant in the biotechnology market, driven by advanced healthcare infrastructure, strong research funding, and a high concentration of biotech firms. The United States leads in biopharmaceutical innovation, with significant investments in gene therapy, personalized medicine, and regenerative treatments. Similarly, Europe fosters growth through government-backed initiatives, stringent regulatory frameworks, and a focus on sustainable biotechnology solutions. The presence of major pharmaceutical companies, along with advancements in DNA sequencing, PCR technology, and cell-based assays, strengthens the region's market position.

Asia Pacific is witnessing rapid growth due to increasing investments in biotechnology and expanding research capabilities. China, Japan, and India are at the forefront, driving innovations in bio-pharmacy, bio-agriculture, and bio-industrial applications. Government initiatives supporting biotech startups, rising demand for biologics, and advancements in DNA recombinant technology and tissue engineering are fueling regional expansion. The growing adoption of bioinformatics and fermentation technology in healthcare and industrial sectors further accelerates market development.

Latin America and the Middle East & Africa are emerging as promising markets, driven by increasing healthcare investments and agricultural biotechnology advancements. Countries like Brazil and Mexico are focusing on bio-industrial applications and bio-agriculture, while Gulf nations are investing in biopharmaceuticals and genomics. Improvements in regulatory frameworks and collaborations with global biotech firms are enhancing growth potential. Despite challenges in infrastructure, these regions present opportunities for expansion in bio-services, bioinformatics, and environmental biotechnology.

## Key Companies & Market Share Insights

The key features of the market report include patent analysis, clinical trial analysis, grant analysis, funding and investment analysis, and strategic initiatives by the leading key players. The major companies in the biotechnology market are as follows:

### AstraZeneca

AstraZeneca is a global biopharmaceutical company specialising in innovative medicines for oncology, cardiovascular, renal, metabolism, and respiratory diseases. It invests heavily in biotechnology, leveraging gene therapies, biologics, and precision medicine to develop breakthrough treatments. The company plays a pivotal role in the biopharmaceutical market, focusing on DNA recombinant technology, cell-based assays, and monoclonal antibodies. AstraZeneca collaborates with leading research institutions to advance personalised medicine and immunotherapies. Its commitment to biotechnology-driven drug discovery continues to strengthen its market presence, making it a key player in global healthcare innovation.

### Gilead Sciences, Inc.

Gilead Sciences, Inc. is a leading biotechnology company known for pioneering antiviral therapies, oncology drugs, and immunological treatments. With a strong focus on gene therapy, monoclonal antibodies, and cell-based assays, the company is a major contributor to biotechnology advancements. Gilead has made significant strides in CAR-T therapies, expanding its presence in precision medicine and regenerative treatments. Through strategic acquisitions and research collaborations, the company continues to develop next-generation biopharmaceuticals, particularly for infectious diseases, liver diseases, and cancer, reinforcing its leadership in global biotechnology innovation.

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## Bristol-Myers Squibb

Bristol-Myers Squibb (BMS) is a major biopharmaceutical company focusing on oncology, immunology, cardiovascular, and haematology. The company excels in gene therapies, monoclonal antibodies, and cell therapy, particularly in advancing CAR-T treatments for cancer. BMS is at the forefront of biotechnology-driven drug discovery, with a robust pipeline in biologics and regenerative medicine. Leveraging cutting-edge DNA recombinant technology and cell engineering, the company continues to strengthen its market presence. Strategic partnerships and acquisitions further enable BMS to expand its influence in precision medicine and targeted therapeutics.

## Sanofi

Sanofi is a global healthcare leader driving biotechnology innovation across vaccines, oncology, immunology, and rare diseases. The company focuses on gene therapies, monoclonal antibodies, and mRNA technologies, enhancing its position in precision medicine and biologics. Sanofi invests in DNA sequencing, cell-based assays, and fermentation technology to accelerate drug discovery and manufacturing. Its strong biopharmaceutical portfolio, along with research in chronic diseases and personalised therapies, supports its growth. Strategic collaborations and acquisitions bolster Sanofi's leadership in next-generation biotech solutions, ensuring continued advancements in global healthcare.

Other key players in the market include Biogen, Pfizer, Inc., Amgen Inc., Novo Nordisk A/S, Johnson & Johnson Services, Inc., Novartis AG, Abbott, Agilent Technologies Inc., Danaher, BD, Bio-Rad Laboratories Inc., General Electric, bioMerieux SA, LONZA, F. Hoffmann-La Roche Ltd., Hoefer, Inc., PerkinElmer Inc., Merck KGaA, Promega Corporation, Quality Biological, Siemens, Bio-Techne, TAKARA HOLDINGS INC., Sysmex Corporation, Tosoh Corporation, and Olympus Corporation.

## Recent Developments

□ In November 2024, FUJIFILM Diosynth Biotechnologies announced a USD 1.2 billion investment to expand its Holly Springs facility, making it North America's largest cell culture contract development and manufacturing organization (CDMO) site. The expansion will likely enhance monoclonal antibody drug manufacturing, integrating advanced biopharmaceutical technologies supporting large-scale biologic drug production and meeting growing industry demand.

□ In September 2023, Japan-based Otsuka Pharmaceutical acquired Mindset, a drug discovery-based research and development company with expertise in treating psychiatric and neurological disorders. This acquisition aims at developing potential therapy for treatment-resistant depression and post-traumatic stress disorder (PTSD). Such strategic partnerships allow the market players to pool resources, technologies, and expertise, leading to accelerated product development and enhanced market reach.

□ In February 2024, it was reported that India-based CrisprBits Private Limited, specializing in diagnostic tests based on gene editing technology, developed OmiCrisp, a diagnostic and surveillance platform for SARS-CoV2 testing leveraging CRISPR technology. This CRISPR-based test rapidly detects the virus as well as shows 99% accuracy in identifying the Omicron lineage of the virus in clinical samples.

□ In September 2023, global healthcare company Abbott Laboratories entered into an agreement with mAbxience Holdings S.L. (Spain-based global biotech company) to commercialize several biosimilars focusing on oncology, respiratory diseases, and women's health, in emerging markets in Latin America, Southeast Asia, the Middle East, and Africa.

□ In December 2023, the United States Food and Drug Administration (FDA) approved two cell-based gene therapies, lovotibeglogene autotemcel (Lyfgenia) and exagamglogene autotemcel (Casgevy) for the treatment of sickle cell disease (SCD). Lyfgenia is approved to treat patients (aged 12 or more) with sickle cell disease and a history of vaso-occlusive events and employs a lentiviral vector for genetic modification. On the other hand, Casgevy made history as the first FDA-approved therapy utilizing CRISPR/Cas9 technology. It is approved to treat sickle cell disease in patients with recurrent vaso-occlusive crises (VOCs). This increased approval of innovative gene therapies by the health regulatory bodies is a major development in the market.

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- In 2022, it was reported that biotech start-ups secured over USD 22 billion in funding from venture capitalists across early- and late-stage rounds. In Q3 2023, more than USD 12 billion was raised, which is projected to support the development of promising treatments and the commercialization of novel gene-editing technologies.
- In June 2024, the United States government, under the leadership of Joe Biden and Kamala Harris made an investment worth USD 1 billion with an aim to leverage biotechnology for combating climate change.
- In April 2024, the company entered into a collaboration with the University of California San Diego (UC San Diego) to establish the Agilent Centre of Excellence (CoE) in Cellular Intelligence for advancing research on editing and engineering cells to treat diseases and expedite the development of novel bioproducts.

## Global Biotechnology Market Report Segmentation

Biotechnology Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

### Market Breakup by Technology

- Nano Biotechnology
- PCR Technology
- DNA Sequencing
- Chromatography
- Tissue Engineering and Regeneration
- Cell Based Assays
- Fermentation
- DNA Recombinant Technology
- Others

### Market Breakup by Application

- Health
- Food and Agriculture
- Natural Resources and Environment
- Industrial Processing
- Bio-Pharmacy
- Bio-Industrial
- Bio-Service
- Bioinformatics
- Bio-Agriculture
- Others

### Market Breakup by End User

- Pharmaceutical and Biotechnology Companies
- Contract Research Organizations
- Academic and Research Institutes
- Others

### Market Breakup by Product Type

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- Instrument
- Reagents and Software
- Services

## Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

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