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Global Gene Therapies for Cancer Treatment Market Research Report 2026(Status and Outlook)

https://marketpublishers.com/r/G2C699287844EN.html
Date: February 2026
Pages: 142
Price: US$ 2,980.00 (Single User License)
ID: G2C699287844EN

Abstracts

Cancer gene therapy is an innovative treatment approach that involves directly modifying the patient's genome to treat cancer. Common strategies include Chimeric Antigen Receptor T-cell (CAR-T) therapy, gene editing technologies such as CRISPR-Cas9, and viral vector-mediated gene transduction. Compared to traditional chemotherapy and radiotherapy, gene therapies offer higher specificity and personalized advantages by repairing or replacing oncogenes at the molecular level, activating the immune system to recognize and eliminate tumor cells, or enhancing anti-tumor immune responses. Cancer gene therapies are applicable to various cancer types, including hematologic malignancies (such as leukemia and lymphoma) and solid tumors (such as lung and breast cancer). Although challenges remain, such as high costs, manufacturing complexities, and long-term efficacy, the demonstrated effectiveness in clinical trials positions gene therapy as a significant research direction in oncology.The cancer gene therapy market is rapidly evolving, driven by several key factors: First, the rising incidence of cancer and the limitations of traditional treatments have increased the demand for novel therapeutic options. Second, advancements in gene editing and cell engineering technologies have made the development and production of cancer gene therapies more feasible. Third, supportive policies from regulatory agencies regarding personalized and precision medicine have created a favorable environment for the clinical application of gene therapies. Fourth, patients' focus on efficacy and quality of life has driven the demand for innovative treatments. Additionally, collaborations between biopharmaceutical companies and research institutions have accelerated the translation of technologies and product development.Despite the significant potential of cancer gene therapies, several challenges and risks persist. First, the high treatment costs, involving personalized cell processing and gene editing, increase the burden on patients and healthcare systems. Second, the manufacturing process is complex, encompassing cell collection, gene

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modification, expansion, and reinfusion, with any deviation potentially impacting efficacy and safety. Third, the long-term efficacy and potential side effects are not yet fully understood, requiring more clinical data for validation. Fourth, the regulatory approval processes are cumbersome and time-consuming, potentially delaying the market introduction of new therapies. Fifth, the market is highly competitive, with numerous companies and research institutions investing in R&D, leading to increased risks of technological and product homogeneity.Downstream demand for cancer gene therapies is exhibiting the following trends: First, with the widespread adoption of precision medicine concepts, there is an increasing demand from patients and healthcare institutions for personalized treatment plans. Second, as efficacy data accumulates, more cancer patients, especially those with refractory or relapsed conditions, are considering gene therapies. Third, insurance companies and payers are gradually expanding coverage for gene therapies, reducing the financial burden on patients. Fourth, patients' concerns about treatment safety and quality of life are prompting research and development to focus more on controlling side effects and optimizing treatment regimens. Additionally, improvements in patient education and information access have enhanced acceptance of new therapies.

The global Gene Therapies for Cancer Treatment market size was estimated at USD 8230.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 18.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Gene Therapies for Cancer Treatment market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Gene Therapies for Cancer Treatment market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

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In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Gene Therapies for Cancer Treatment market.

Global Gene Therapies for Cancer Treatment Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Biogen
Novartis
Gilead Sciences
SareptaTherapeutics
Sunway Biotech
SIBIONO
AnGes
Orchard Therapeutics
Human Stem Cells Institute

Market Segmentation (by Type)

Viral Vectors
Non-viral Vectors

Market Segmentation (by Application)

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Solid Tumors
Hematologic Malignancies

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Gene Therapies for Cancer Treatment Market
Overview of the regional outlook of the Gene Therapies for Cancer Treatment Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Gene Therapies for Cancer Treatment Market and its likely evolution in the short to mid-term, and long term.

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Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Gene Therapies for Cancer Treatment, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

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Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions
Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis
Provides insight into the market through Value Chain
Market dynamics scenario, along with growth opportunities of the market in the years to come
6-month post-sales analyst support

Customization of the Report

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