

# **Cancer Gene Therapy Market Size, Trends, Analysis, and Outlook By Therapy (Oncolytic Virotherapy, Gene Induced Immunotherapy, Gene Transfer), By End-User (Research Institutes, Biopharmaceutical Companies, Diagnostic Centers, Others), by Region, Country, Segment, and Companies, 2024-2030**

<https://marketpublishers.com/r/C024190AFD43EN.html>

Date: March 2024

Pages: 190

Price: US\$ 3,980.00 (Single User License)

ID: C024190AFD43EN

## **Abstracts**

The global Cancer Gene Therapy market size is poised to register 20.3% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Cancer Gene Therapy market across By Therapy (Oncolytic Virotherapy, Gene Induced Immunotherapy, Gene Transfer), By End-User (Research Institutes, Biopharmaceutical Companies, Diagnostic Centers, Others).

The Cancer Gene Therapy Market is experiencing notable growth and therapeutic innovation in 2024 and beyond, driven by advancements in gene editing technologies, viral vector delivery systems, and targeted gene manipulation approaches aimed at correcting genetic mutations, disrupting oncogenic pathways, and inducing tumor cell death in cancer patients with genetic predispositions, hereditary cancer syndromes, or acquired genetic alterations associated with tumorigenesis, tumor progression, and treatment resistance mechanisms. Cancer gene therapy encompasses a diverse range of therapeutic strategies, including gene replacement therapy, gene silencing therapy, suicide gene therapy, and adoptive cell transfer therapy, designed to modulate cancer cell biology, enhance antitumor immunity, and improve treatment outcomes through precise genetic modifications and molecular interventions that target specific genes, signaling pathways, and cellular functions implicated in cancer development and progression. Key trends include the development of innovative gene editing tools, such

as CRISPR-Cas9, zinc finger nucleases (ZFNs), and transcription activator-like effector nucleases (TALENs), for precise genome engineering and targeted gene editing in cancer cells, as well as the exploration of novel gene delivery platforms, viral vectors, and nonviral nanoparticles for efficient gene transfer, transduction, and expression in tumor tissues while minimizing off-target effects, immune responses, and vector-related toxicities. Additionally, there is a growing emphasis on personalized gene therapy approaches, patient-specific gene editing strategies, and ex vivo gene modification techniques that tailor cancer treatments to individual genetic profiles, tumor molecular subtypes, and immunogenomic characteristics, as well as a growing focus on regulatory oversight, ethical considerations, and long-term safety monitoring in gene therapy clinical trials and translational research programs to ensure patient safety, treatment efficacy, and ethical integrity in gene-based cancer therapies. Moreover, collaborative partnerships between gene therapy companies, academic medical centers, and patient advocacy organizations are essential for advancing cancer gene therapy research, fostering innovation, and translating scientific discoveries into transformative gene-based cancer treatments that improve patient outcomes and quality of life in oncology practice worldwide.

## Cancer Gene Therapy Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Cancer Gene Therapy market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Cancer Gene Therapy survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Cancer Gene Therapy industry.

## Key market trends defining the global Cancer Gene Therapy demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Cancer Gene Therapy Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Cancer Gene Therapy industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Cancer Gene Therapy companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Cancer Gene Therapy industry

Leading Cancer Gene Therapy companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Cancer Gene Therapy companies.

Cancer Gene Therapy Market Study- Strategic Analysis Review

The Cancer Gene Therapy market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Cancer Gene Therapy Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Cancer Gene Therapy industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Cancer Gene Therapy Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Cancer Gene Therapy Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Cancer Gene Therapy market segments. Similarly, Strong end-user demand is encouraging Canadian Cancer Gene Therapy companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Cancer Gene Therapy market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Cancer Gene Therapy Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Cancer Gene Therapy industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Cancer Gene Therapy market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Cancer Gene Therapy Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Cancer Gene Therapy in Asia Pacific. In particular, China, India, and South East Asian Cancer Gene Therapy markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Cancer Gene Therapy Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Cancer Gene Therapy Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Cancer Gene Therapy market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Cancer Gene Therapy.

Cancer Gene Therapy Market Company Profiles

The global Cancer Gene Therapy market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Abeona Therapeutics Inc, Altor Bioscience Inc, Asklepios BioPharmaceutical Inc, BioCancell Inc, Bluebird bio Inc, CelgeneInc, Elevate BioInc, Genelux Corp, GenVec,

GlaxoSmithKlineInc, Introgen TherapeuticsInc, MerckKGaA, OncoGenex  
Pharmaceuticals Inc

## Recent Cancer Gene Therapy Market Developments

The global Cancer Gene Therapy market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

## Cancer Gene Therapy Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

By Therapy

*Cancer Gene Therapy Market Size, Trends, Analysis, and Outlook By Therapy (Oncolytic Virotherapy, Gene Induced...*

Oncolytic Virotherapy

Gene Induced Immunotherapy

Gene Transfer

By End-user

Research Institutes

Biopharmaceutical Companies

Diagnostic Centers

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Abeona Therapeutics Inc

Altor Bioscience Inc

Asklepios BioPharmaceutical Inc

BioCancell Inc

Bluebird bio Inc

CelgeneInc

Elevate BioInc

Genelux Corp

GenVec

GlaxoSmithKlineInc

Introgen TherapeuticsInc

MerckKGaA

OncoGenex Pharmaceuticals Inc

Formats Available: Excel, PDF, and PPT



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By End-user

Research Institutes

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