

Cancer Gene Therapy Market Expected to Achieve a Strong 13.37% CAGR, to Reach USD 32.0 Billion by 2035

Breast and Lung Cancer dominate, driven by high incidence and genetic testing integration.

US, NY, UNITED STATES, April 22, 2025 /EINPresswire.com/ -- Global Cancer Gene Therapy Market Poised for Explosive Growth: Projected to Reach USD 32 Billion by 2035

The Global [Cancer Gene Therapy Market Size](#) is undergoing a

transformational shift, driven by technological breakthroughs, personalized medicine, and an intensifying global focus on innovative cancer treatments. According to a recent analysis by MRFR, the market, valued at USD 8.05 billion in 2024, is projected to skyrocket to USD 32 billion by 2035, registering an impressive CAGR of 13.37% during the forecast period (2025–2035).

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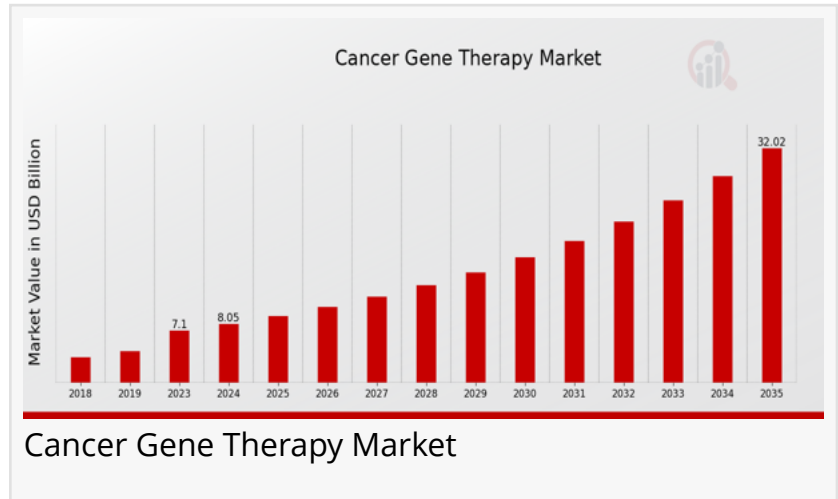
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Market Overview

Cancer gene therapy is emerging as a cornerstone of next-generation cancer treatment, addressing the root causes of the disease through genetic modification. With an increased understanding of cancer genomics and advancements in gene editing technologies like CRISPR, the landscape is evolving rapidly. The market's growth is bolstered by rising investment in precision medicine, increasing cancer prevalence, and a shift toward combination therapies for better clinical outcomes.

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Market Drivers

Rising R&D Investments: Public and private sector funding in cancer research is at an all-time high, accelerating innovation and bringing novel therapies closer to market.

Technological Advancements: Progress in CRISPR, viral vectors, nanoparticles, and delivery platforms is improving the precision, safety, and scalability of gene therapy.

Growing Patient Acceptance: Increased awareness and successful clinical trials are building trust among healthcare professionals and patients alike.

Segmentation Insights

Therapeutic Approach

Gene Editing leads with USD 1.5B in 2024, projected to reach USD 6.0B by 2035.

Gene Transfer and Oncolytic Virus Therapy continue to gain momentum for their targeted and less invasive methodologies.

Immunotherapy and Gene Silencing are redefining cancer immunogenetics and personalized care.

Target Disease

Breast and Lung Cancer dominate, driven by high incidence and genetic testing integration.

Leukemia, Colorectal, and Prostate Cancer are gaining traction due to gene-specific vulnerabilities being exploited by new treatments.

Type of Therapy

Ex-Vivo Therapy sees increased adoption for its precision.

In-Vivo and Combination Therapies are gaining attention for their real-time efficacy and holistic treatment outcomes.

Delivery Method

Viral Vectors remain the gold standard.

Plasmid DNA and Nanoparticles are emerging for safer, more flexible alternatives.

Regional Outlook

North America leads with a market share of USD 3.5B in 2024, supported by superior healthcare infrastructure and robust R&D.

Europe follows at USD 2.5B, while Asia Pacific (USD 1.8B) is experiencing the fastest growth, driven by improving healthcare systems and growing demand.

Emerging markets in South America and the Middle East & Africa are ripe with opportunities as regulatory frameworks modernize.

Key Players and Competitive Landscape

The market is dominated by key players who are driving innovation through strategic collaborations, acquisitions, and product development:

Celgene / Bristol Myers Squibb

Sangamo Therapeutics

Celyad Oncology

Novartis

Zymeworks

Gilead Sciences

Adaptimmune

Medigene

bluebird bio

Legend Biotech

Amgen

OncoSec Medical

Vir Biotechnology

Heap Bio

These companies are actively enhancing their gene therapy pipelines, leveraging technologies such as CAR-T, ZFP-TFs, and viral vector platforms to address unmet medical needs in oncology.

Industry Developments

Strategic mergers (e.g., Celgene-BMS) are reshaping the market.

Collaborations between biotech firms and academic institutions are expediting clinical translation.

Regulatory bodies are increasingly supportive, enabling faster approval pathways for advanced gene therapies.

Outlook and Opportunities

The Cancer Gene Therapy Market is positioned for robust, long-term growth. As gene therapy becomes central to oncology care, stakeholders can expect:

Expanded indications and personalized regimens

Improved regulatory clarity and approval rates

Scalable manufacturing and global commercialization

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