

# **Global Cancer Gene Therapy Market : Market Estimation, Dynamics, Regional Share, Trends, Competitor Analysis 2012 to 2016 and Forecast 2017 to 2023**

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## **Abstracts**

### **Cancer Gene Therapy Market**

Cancer gene therapy is a process that treats cancers by inserting therapeutic DNA into the patient. Cancer gene therapy is gaining popularity as a result of its success rate in preclinical and clinical trial stages. The most common technique for cancer gene therapy involves replacing a mutated gene that is causing cancer with a healthy copy of the gene. A new technique that is being introduced to cancer gene therapy market involves insertion of new genes into the body that would help to fight against tumor cells.

Globally, rising cancer prevalence will increase demand for gene therapy as the effective personalized treatment choice. Various factors, such as the increase in the prevalence of cancer, rising government initiatives, increase in funding from various government and non-government organizations, ethical acceptance of gene therapy for treatment of diseases and growing popularity of DNA vaccines is driving the global cancer gene therapy market. However, less awareness and high cost involved in treatment, Lack of reimbursement policies for advanced gene therapy methods are restraining the growth of the global market for cancer gene therapy.

The Global cancer gene therapy market is segmented on the basis of type, therapy, end-user and regional

Based on the type, global cancer gene therapy market is segmented as:

Gene Induced Immunotherapy

Tumour Antigen Gene Delivery

Cytokine Gene Delivery

Oncolytic Virotherapy

Adenoviruses

Adeno Associated Virus

Lentiviruses

Alpha Virus

Retrovirus

Herpes Simplex Virus

Vaccinia virus

Simian Virus

Gene Transfer/Gene Replacement

Electroporation

Magnetofection

Naked/Plasmid Vectors

Gene Gun

Sonoporation

Based on the therapy, global cancer gene therapy market is segmented as:

Retroviral Therapy

Adenoviral Therapy

Based on the end-user, global cancer gene therapy market is segmented as:

Hospitals

Oncology institutes

Biotechnological companies

Clinical Research Labs

Global cancer gene therapy market is highly fragmented with small biotech firms holding a chunk of the overall industry share. Major industry participants adopting various strategies to retaining their market positions such as the development of advanced technologies, maintaining a strong intellectual property, strategic collaborations, and joint ventures adopted by in the global cancer gene therapy. As per WHO, cancer incidence is projected to rise by 50% to reach 15 Mn by the end of this decade. This alarming increase in the number of patients and side effects associated with various chemotherapy drugs necessitates this as a potential treatment approach addressing the growing global burden of the cancers. Small biotech firms dominate the global cancer gene therapy market than the bigger players. The players are constantly engaged in R&D in order to develop novel methods to treat various life-threatening diseases. Increased in the adoption of emerging genomic technologies such as Next Generation Sequencing (NGS) and high-density microarray coupled with favorable government initiatives will fuel global cancer gene therapy market. For instance, CDC supports nationwide screening programs for control of breast, cervical and colorectal cancer among low-income women with little or no health insurance.

Geographically, the cancer gene therapy is segmented into North America, Europe, Latin America, Asia- Pacific and the Middle East and Africa. North America leads the global cancer gene therapy market owing to the large pool of aging population and advancements in technology high investments in R & D activities along with the government support will boost industry demand. The U.K. market is anticipated to grow rapidly over the forecast period due to the rising occurrence of cancer along with the

increase in acceptance of gene technology. Asia-Pacific is expected to witness high growth in cancer gene therapy market, due to increase in government initiatives, rising economy, and improvement in healthcare infrastructure in the region. Some of the key driving forces for cancer gene therapy market in emerging countries are increasing R&D investment, a large pool of patients and rising government funding.

Some of the major companies operating in the global cancer gene therapy market are Urogen Pharmaceuticals Inc. (U.S), GenVec.Inc (U.S), Oxford BioMedica (U.K), Vical (U.S), ANI Pharmaceuticals, Inc. (U.S), and Genzyme Corporation (U.S). Novartis AG (Switzerland), and Cell Medica (U.K.)

In July 2017, Novartis received U.S. FDA Oncologic Drugs Advisory Committee (ODAC) recommended approval of CTL019, an investigational chimeric antigen receptor T cell (CAR-T) therapy, for the treatment of relapsed or refractory pediatric and young adult patients with B-cell acute lymphoblastic leukemia.

In June 2017, Cell Medica acquired the Catapult Therapy TCR Limited, a subsidiary of Cell and Gene Therapy Catapult (CGT Catapult), and the initiation of a collaboration to establish cell therapy manufacturing for Cell Medica at CGT Catapult's GMP manufacturing facility in Stevenage, UK.

In June 2013, BioSante Pharmaceuticals, Inc. completed the merger of its wholly-owned subsidiary with and into ANIP Acquisition Company, ANI Pharmaceuticals, Inc.

#### Report Outline:

The report provides granular level information about the market size, regional market share, and forecast from 2017-2023

The report covers in-detail insights about the competitor's overview, key findings, and their key strategies

The report outlines drivers, restraints, challenges, and trends that are currently faced by the industry

The report tracks recent innovations, key developments and startup's details that are working in the industry

The report provides plethora of information about market entry strategies,

regulatory framework and reimbursement scenario

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