

Global Cell and Gene Therapy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cell and Gene Therapy market size is expected to reach \$ 5826 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Cell and Gene Therapy is a revolutionary medical technology that treats or cures diseases by modifying or manipulating human genes. Its core lies in intervening at the root causes of genetic defects, cancer, and chronic diseases. This therapy is mainly divided into two categories: gene therapy focuses on delivering functionally normal genes into the patient's body via viral or non-viral vectors to replace or compensate for defective/abnormal genes, or to silence the expression of harmful genes; cell therapy involves modifying, activating, or expanding autologous or allogeneic live cells (such as immune cells and stem cells) in vitro and then reinfusing them to rebuild immune function, repair damaged tissue, or directly kill tumors. As a cutting-edge field of precision medicine, Cell and Gene Therapy offers potential cures for many diseases that traditional therapies have failed to address.

The global cell and gene therapy market is experiencing rapid growth driven by technological breakthroughs, a surge in pipelines, and commercialization. North America and Europe, as mature markets, lead in the number of approved CAR-T therapies, AAV gene therapies, and rare disease drugs, leveraging their advanced gene-editing technologies, robust regulatory frameworks, and extensive clinical research experience. The Asia-Pacific region is the fastest-growing and most active in clinical research. China, with its leading global number of cell therapy clinical studies, strong policy support, and cost advantages across its supply chain, is rapidly advancing autologous CAR-T, universal cell therapies, and gene-editing therapies, leading to the rapid rise of domestic innovative pharmaceutical companies. The industry as a whole is accelerating its evolution towards breakthroughs in solid tumors, universal off-the-shelf

products, and in vivo gene editing.

This report studies the global Cell and Gene Therapy demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cell and Gene Therapy, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cell and Gene Therapy that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cell and Gene Therapy total market, 2021-2032, (USD Million)

Global Cell and Gene Therapy total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Cell and Gene Therapy total market, key domestic companies, and share, (USD Million)

Global Cell and Gene Therapy revenue by player, revenue and market share 2021-2026, (USD Million)

Global Cell and Gene Therapy total market by Type, CAGR, 2021-2032, (USD Million)

Global Cell and Gene Therapy total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Cell and Gene Therapy market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amgen Inc., Dendreon Pharmaceuticals LLC., Fibrocell Science, Inc, Lonza, Charles River Laboratories, Cytiva, Catalent Biologics, FUJIFILM Diosynth Biotechnologies, Made Scientific, AGC Biologics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Cell and Gene Therapy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Cell and Gene Therapy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cell and Gene Therapy Market, Segmentation by Type:

Rare Diseases

Oncology

Hematology

Cardiovascular

Ophthalmology

Neurology

Others

Global Cell and Gene Therapy Market, Segmentation by Cell Source:

Autologous Cell Therapy

Universal Cell Therapy

Xenogeneic Cell Therapy

Global Cell and Gene Therapy Market, Segmentation by Technology:

Viral Vector Delivery

Non-viral Vector Delivery

Gene Editing Technology

Others

Global Cell and Gene Therapy Market, Segmentation by Application:

Pharmaceutical and Biotechnology Companies

Research and Academic Institutions

Contract Research Organizations (CROs)

Hospital

Others

Companies Profiled:

Amgen Inc.

Dendreon Pharmaceuticals LLC.

Fibrocell Science, Inc

Lonza

Charles River Laboratories

Cytiva

Catalent Biologics

FUJIFILM Diosynth Biotechnologies

Made Scientific

AGC Biologics

Pfizer CentreOne

Samsung Biologics

Kite Pharma, Inc.

Kolon TissueGene, Inc.

Novartis AG

Key Questions Answered

1. How big is the global Cell and Gene Therapy market?
2. What is the demand of the global Cell and Gene Therapy market?
3. What is the year over year growth of the global Cell and Gene Therapy market?
4. What is the total value of the global Cell and Gene Therapy market?
5. Who are the Major Players in the global Cell and Gene Therapy market?

6. What are the growth factors driving the market demand?

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