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Cell Therapy Technologies Market by Product (Media, Sera & Reagents, Vessels, Single-Use Equipment), Process (Cell Processing, Preservation, Distribution, QC), Cell type (T-Cells, Stem cells), Application (Cancer, CVD), End user - Global Forecast to 2029

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Abstracts

The global cell therapy technologies market is projected to surpass USD 6.80 billion in 2029 from USD 4.03 billion in 2024, with a significant CAGR of 11.0%. This market is driven by advancements in regenerative medicine, the rising prevalence of chronic diseases, increasing investments in research and development, and innovations in gene editing tools, such as CRISPR. Regulatory support and government funding, alongside strategic collaborations between biotech firms and academic institutions, are propelling the development of novel cell therapies, subsequently driving the market growth.

“The T cells cell therapy technologies segment accounted for the largest share in 2023.”

The cell therapy technologies market is bifurcated into three primary categories based on cell type, that are T cells, stem cells, and other cells. The T cells segment dominated the share of the market in the year 2023 due to being crucial in advancing immunotherapies, especially CAR-T therapies spurring substantial investments and technological innovations in T-cell engineering and scalable manufacturing. Advancements in CRISPR technology, ex vivo expansion, and 'off-the-shelf' allogeneic solutions all further help in advancing market offerings.

“By application, the cancer application segment accounted for the largest share in the cell therapy technologies market.”

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The application segment in the cell therapy technologies market includes cancer, cardiovascular disease (CVD), orthopaedic disorders, autoimmune diseases, and other applications. The cancer application dominated the segment due to increasing prevalence of cancer globally and the rising demand for innovative, targeted therapies. Advancements in cell engineering, scalable manufacturing, and emerging applications in solid tumors further enhance the growth potential of this segment. It possesses a solid clinical pipeline, and the government initiatives are very supportive with regulatory approvals for the growth of the segment.

“North America: the largest share of the cell therapy technologies market”

By region, the market is segment into North America, Europe, Asia Pacific, Latin America, the Middle East and Africa. North America dominated the cell therapy technologies market in 2023 and likely continue to be dominant during the forecast period. North America dominates the cell therapy technologies market due to its robust healthcare infrastructure, significant investments in research and development, and the presence of key market players. The region benefits from strong regulatory support, with agencies like the FDA streamlining approvals for innovative therapies. High prevalence of chronic diseases, increasing demand for personalized medicine, and advanced manufacturing facilities further bolster regions dominance.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the cell therapy technologies market.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 70% and Demand Side 30%

By Designation: Managers - 45%, CXO & Directors - 30%, and Executives - 25%

By Region: North America -40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

Danaher Corporation (US), Merck KGaA (Germany), Thermo Fisher Scientific Inc. (US), Lonza (Switzerland), Sartorius AG (Germany), Agilent Technologies Inc. (US), Avantor, Inc. (US), Bio-Techne (US), Fresenius SE & Co KGAA (Germany), BD (US), Corning

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Incorporated (US), Terumo Corporation (Japan), GenScript (US), MaxCyte (US) and STEMCELL Technologies (Canada) are some of the major players operating in the cell therapy technologies market.

Research Coverage:

This research report categorizes the cell therapy technologies market product (media, sera, and reagents; cell engineering products; cell culture vessels; cell therapy equipment; systems & software; and other products), process (cell processing, cell preservation, cell distribution, cell handling, and process monitoring & quality control), cell type (T cells, stem cells, and other cells), application (cancer, cardiovascular disease (CVD), orthopedic disorders, autoimmune diseases, and other applications) end user (biopharmaceutical & biotechnology companies, CROs & CMOs, research institutes, and cell banks) and region (North America, Europe, Asia Pacific, Latin America, Middle East and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the cell therapy technologiess market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, key strategies, collaborations, partnerships, and agreements. New launches, collaborations and acquisitions, and recent developments associated with the cell therapy technologies market.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the cell therapy technologies and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Analysis of key drivers (increased funding and investment in cell therapy, advancements in gene editing technologies, the development of automated cell processing systems, and regulatory support for fast-tracking therapies), restraints (manufacturing and logistical complexity), opportunities (personalized and off-the-shelf cell therapies, integration with digital technologies such as AI &

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ML) and Challenges (supply chain & cold chain management and manufacturing scalability & quality control).

Product Development/Innovation: Detailed insights on maintaining a comprehensive and innovative product portfolio offering for cell therapy technologies.

Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the cell therapy technologies market.

Competitive Assessment: Danaher Corporation (US), Merck KGaA (Germany), Thermo Fisher Scientific Inc. (US), Lonza (Switzerland), Sartorius AG (Germany), and among others in the market.

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