

The Cell Sheet-Based Gene Therapy Market is projected to grow to USD \$1.34 Billion by 2030, expanding at a CAGR of 14.6%

The Business Research Company's Cell Sheet-Based Gene Therapy Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

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[/Einpresswire.com/](https://www.einpresswire.com/) -- [The cell sheet-based gene therapy sector](#) is gaining

significant traction as advancements in medical research and technology accelerate its development. This innovative approach is reshaping treatment possibilities, particularly in regenerative medicine, by offering targeted and sustained therapeutic benefits. Let's explore the market size, key growth drivers, regional outlook, and emerging trends shaping this promising industry.

Market Size and Expected Growth of the Cell Sheet-Based Gene Therapy Market

The market for cell sheet-based gene therapy has experienced rapid expansion in recent years. It is projected to increase from \$0.68 billion in 2025 to \$0.78 billion in 2026, reflecting a compound annual growth rate (CAGR) of 14.4%. This historical growth is largely attributed to progress in tissue engineering research, the early adoption of regenerative medicine techniques, advances in gene delivery technologies, and the growth of cell-based therapeutic studies alongside expanding translational research efforts.

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Looking ahead, this market is forecasted to grow even more briskly, reaching \$1.34 billion by 2030 at a CAGR of 14.6%. The surge in this forecast period is expected to result from rising demand for localized regenerative therapies, an increase in clinical trials focused on gene-modified cell therapies, and expanding applications in oncology and cardiology. Additionally, investments in advanced tissue engineering and precision regenerative medicine are expected to drive innovation. Leading trends include the development of multilayered and co-culture cell



sheet technologies, enhanced focus on localized gene expression therapies, greater integration of regenerative approaches, increased use of stem cell-derived sheets, and a stronger emphasis on tissue integration and durability.

[Understanding Cell Sheet-Based Gene Therapy and Its Mechanism](#)

Cell sheet-based gene therapy combines gene delivery techniques with engineered layers of living cells to achieve localized and sustained gene expression precisely where needed. This method maintains crucial cell-to-cell connections and the extracellular matrix, which enhances cell survival, integration, and functional stability after transplantation. By enabling targeted tissue regeneration and therapeutic gene activity, this approach minimizes systemic exposure and reduces the risk of unwanted side effects, making it a highly effective strategy for regenerative treatments.

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Key Factors Fueling Growth in the Cell Sheet-Based Gene Therapy Market

One of the main drivers behind the expansion of this market is the increasing prevalence of chronic and degenerative diseases. Conditions such as cardiovascular disorders, neurodegenerative diseases, diabetes, and genetic disorders cause progressive tissue damage, requiring ongoing therapeutic intervention. The rise in these diseases is linked to aging populations and longer life expectancies worldwide, both in developed and developing countries. Cell sheet-based gene therapy provides regenerative treatment options that enable localized tissue repair and sustained gene delivery via layered living cell constructs, ultimately improving tissue integration and long-term therapeutic outcomes.

For example, in April 2025, the International Diabetes Federation (IDF), a Belgium-based non-profit organization, reported that 589 million people were living with diabetes globally in 2024, with projections estimating this number will climb to 853 million by 2050. Such statistics highlight how the growing burden of chronic diseases is a key factor propelling the cell sheet-based gene therapy market forward.

Regional Market Insights Highlighting Growth Opportunities

In 2025, North America was the largest market for cell sheet-based gene therapy, holding the dominant regional share. However, the Asia-Pacific region is anticipated to experience the fastest growth during the forecast period. The market report includes an analysis of key regions such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa, providing a broad perspective on global market dynamics and regional growth prospects.

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