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Stem Cells Market Size, Share & Trends Analysis Report By Product (Adult Stem Cells, Human Embryonic Stem Cells), By Application (Regenerative Medicine), By Technology, Therapy, End-use, By Region, And Segment Forecasts, 2025 - 2030

https://marketpublishers.com/r/SC7CCC82F67AEN.html
Date: October 2024
Pages: 150
Price: US$ 5,950.00 (Single User License)
ID: SC7CCC82F67AEN

Abstracts

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Stem Cells Market Growth & Trends

The global stem cells market size is expected treach USD 28.89 billion by 2030, registering a CAGR of 11.41% from 2025 t2030, according ta new report by Grand View Research, Inc. Stem cells are cells that can differentiate inta variety of other cells, eventually forming organs or tissues. Many studies have been conducted over the years tassess the true potential of stem cells, leading ta variety of applications in the fields of genetic disease treatment, neurological disorders, oncology, and organ regeneration. The market is driven by the rising number of banks, growing focus on increasing therapeutic potential of these products, and extensive research for the development of regenerative medicines, among other factors.

The growing focus on regenerative therapies is fueling market expansion. iPSCs are becoming increasingly popular for the creation of customized cellular therapies, and opening up new possibilities in regenerative medicine. For instance, in September 2020, researchers from Duke-NUS and Monash University discovered the first stem cell that can aid in the treatment of placenta issues during pregnancy. The researchers devised a new method for producing induced trophoblast stem cells that can be used tgenerate placenta cells. The research will aid in the development of an in-vitrhuman placenta model and pave the way for future therapies.

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Moreover, COVID-19 is acting as a catalyst for promoting the market growth. Several countries such as U.S., China, and Iran, have started conducting clinical trials using cellular therapies for treatment of COVID-19 infections. Furthermore, the use of cell therapy in the treatment of COVID-19 patients has yielded excellent results, which is fueling market expansion. In January 2020, a group of researchers in Beijing, China, tested stem cell treatment on patients tsee if it was beneficial against COVID-19. The study found that administering intravenous clinical-grade MSCs tCOVID-19 patients during first trial of treatment, improved their functional results and promoted enhanced recovery.

Increasing prevalence of cancer is one of the key factors contributing tthe growth over the forecast period. Failure of combination therapy and chemotherapy for treatment of cancer has led tthe shift in preference of physicians from such therapies tautologous and allogeneic stem cell therapy, thereby boosting the growth. Moreover, key market players and the government bodies are continuously investing in cancer research. For instance, in November 2021, California Institute for Regenerative Medicine invested USD 4 million in therapy targeting patients with acute lymphoblastic leukemia (ALL), chronic lymphocytic leukemia (CLL) and mantle cell lymphoma (MCL)

Introduction of novel technologies for the usage and adoption of cell based therapy is expected tboost the growth over the forecast period. Automation in adult stem cell & cord blood processing and storage are the key technologies expected tpositively influence the market growth. For instance, various scientists are aiming for the approval of safe, and successful treatments using stem cells in a broad range of diseases. In 2021, companies such as Biotech Cellininvested USD 75 million in an effort tmerge Artificial Intelligence technology for the development of automated stem cell manufacturing, that has the ability tregularizing access tcell treatments while aiming tbe cost effective.

On the other hand, high cost of therapy is expected thinder the market growth. For example, Biinformant, a stem cell research firm, reported that the cost of stem cell therapy ranges between USD 5,000 and USD 8,000 per patient, with some cases costing as much as USD 25,000 or more depending on the complexity of the procedure. Furthermore, restrictions on stem cell research activities have traditionally hampered embryonic stem cell growth, resulting in a meager share of the total market despite its advantages.

Stem Cells Market Report Highlights

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Adult stem cells held the largest revenue share of 70.76% of the market in 2024 as these cells dnot involve the destruction of embryos, which is the case in embryonic stem cells

Regenerative medicine dominated the market in 2024 owing tincreasing funding by the government for the development of regenerative medicines

The cell acquisition segment captured the highest revenue share of 33.43% of the market in 2024. The discovery of embryonic stem cells has paved the way for the development of novel treatments for several diseases

The allogenic therapy segment captured the largest revenue share of 59.33% in 2024 with regard trevenue generation

The pharmaceutical and biotechnology companies segment captured the largest revenue share of 54.19% in 2024

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