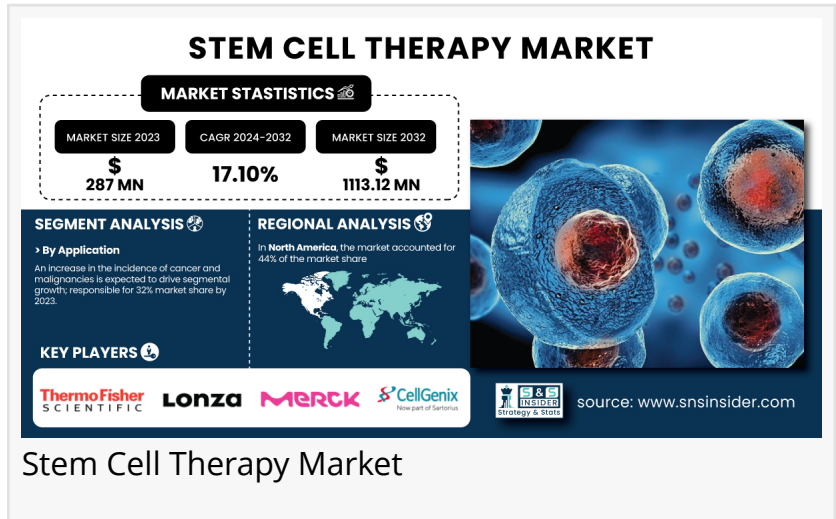


Global Stem Cell Therapy Market to Hit USD 1,113.12 Million by 2032, Fueled by Advancements in Regenerative Medicine

Increased R&D, Strategic Collaborations, and Growing Prevalence of Chronic Diseases Drive Market Growth at a Robust CAGR of 17.10%

AUSTIN, TX, UNITED STATES, January 28, 2025 /EINPresswire.com/ -- According to Research by SNS Insider, The global [Stem Cell Therapy Market](#), valued at USD 287 million in 2023, is projected to reach a staggering USD 1,113.12 million by 2032, growing at an impressive CAGR of 17.10% over the forecast period from 2024 to 2032.



Stem Cell Therapy Market

Increasing Prevalence of Chronic Diseases and the Role of Stem Cells

One of the most significant factors accelerating the expansion of the global stem cell therapy market is a global rise in chronic disease prevalence. The World Health Organization (WHO) reported that 71% of all global deaths are caused by chronic diseases, which amounts to more than 41 million deaths a year. There is increasing momentum behind the need to deliver treatments for long-term illnesses like heart disease, diabetes, and neurological diseases in a more efficient and targeted manner. In addition, stem cell therapies are coming up as an alternative for permanent organ or tissue pathologies that cannot be restored automatically. Stem cells are revolutionizing the treatments offered by physicians by providing custom-made treatment for diseases such as osteoarthritis, Parkinsons disease, diabetes, and spinal cord injuries.

In addition, government agencies and private investors fund large portions of this research, helping to advance stem cell technology. The U.S. National Institutes of Health (NIH) invested around USD 1.8 billion in stem cell research in 2023, driving swift progress in the field of regenerative medicine. Meanwhile, the U.S. Food and Drug Administration (FDA) is watching the stem cell movement closely and developing a regulatory approach that will enable safe stem cell therapies to be tested in controlled clinical trials.

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Key Players in Stem Cell Therapy Market

- Thermo Fisher Scientific Inc.
- Lonza
- Merck KGaA
- CellGenix GmbH
- Takara Bio
- Cellartis AB
- AcceGen
- Cell Applications Inc.
- ATCC
- PromoCell GmbH
- Bio-Techne
- STEMCELL Technologies Inc.

Segmentation Analysis

By Product

Adult stem cells accounted for 76.36% of the market share in 2023. Adult stem cells are already used therapeutically and can be isolated from tissues like bone marrow or fat tissue. Because they can convert into different types of cells, meaning they are appropriate to administer for diseases like arthritis, and cardiovascular and neurological disorders. Moreover, ethical issues and fewer regulatory hurdles are the reasons why there is more preference for adult stem cells than for other types of stem cells, such as embryonic stem cells. The research on regenerative medicine by establishing a stem cell-based treatment is progressing rapidly; subsequently, their usage in clinical therapies is also on an expeditious increase and different hospitals/clinics are adopting stem cell therapy.

By Therapy

The allogenic therapy segment dominated the market in 2023 with a 60% share. While autologous stem cell therapy uses the patient's stem cells, allogenic stem cell therapy consists of donor stem cells. Allogenic (stem cells from different donors) therapies are preferred since they provide a source of readily available stem cells and are beneficial in situations in which the patient's own stem cells may not work adequately or are not enough. Furthermore, allogenic therapies have shown promise in the applications of blood disorders, bone marrow failure, and some malignancies. Moreover, the allogenic therapy segment is expected to experience significant growth during the projected period, owing to the increasing focus on addressing the risk of transplant rejection through advanced immunosuppressive drugs and the use of induced pluripotent stem cells (iPSCs).

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Stem Cell Therapy Market Segmentation

By Product

- Adult Stem Cells (ASCs)
- Human Embryonic Stem Cells (HESCs)
- Induced Pluripotent Stem Cells (iPSCs)
- Very Small Embryonic Like Stem Cells

By Application

- Neurological Disorders
- Orthopaedic Treatments
- Oncology Disorders
- Injuries and Wounds
- Cardiovascular Disorders
- Others

By Therapy

- Allogeneic
- Autologic
- Syngeneic

By End-Use

- Pharmaceutical & Biotechnology Companies
- Hospitals & Cell Banks
- Academic & Research Institutes

By Technology

- Cell Acquisition
- Cell Production
- Cryopreservation
- Expansion and Sub-Culture

Regional Analysis

The stem cell therapy market is dominated by North America, owning 44% of the market in 2023. This is due to the strong presence of leading biopharma companies, advanced healthcare infrastructure, and significant government funding for stem cell research in the region. Stem cell-related research and clinical trials have been given funding of over USD 300 million by the U.S. government, among others in recent years leading to rapid expansion of the domain. This is stimulating the market in North America, where the increasing number of clinical trials on stem cell therapies, combined with increasing patient demand for personalized regenerative

treatments are expected to propel the market forward. Additionally, the regulatory environment for stem cell research in North America is generally favorable, and the FDA has established a clear pathway for clinical trials and commercialization of stem cell-based therapies.

The stem cell therapy market in the Asia-Pacific (APAC) region is projected to grow at the fastest CAGR during the forecast period. For example, the growing level of investment in healthcare spending, fast adoption of modern medical technologies, and increasing demand for various types of stem cell-based treatments within China, Japan, and India are some of the main drivers of this process. Advancing rapidly, the APAC region is building significance in both the research and clinical trial component of stem cell innovations, with a growing number of research institutions and biotechnology companies focusing on these developments. Additionally, countries like China are investing heavily in stem cell research, with over 150 ongoing clinical trials involving stem cells.

Recent Developments

- In November 2023, Thermo Fisher Scientific announced the launch of Macromol™ stem cell culture products designed to improve scalability and production efficiencies of stem cell therapies.
- In September 2023, Mesoblast Limited, a global leader with the technology to develop regenerative medicine solutions, announced it was approved to market its stem cell product for heart failure.

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Akash Anand

SNS Insider Pvt. Ltd

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