

Market Analysis for Stem Cell and Regenerative medicine

Dr. Vahideh Nasr

Department Faculty, Shahid Beheshti University of Medical Sciences Tehran, Iran, E-mail: dft.nasr@yahoo.com

Market Growth of Stem Cell & Regenerative Medicine Research:

Global Market of Regenerative Medicines anticipated achieving USD 30,237 million by 2022. Current Research says that, Regenerative Medicine has opened several insights in the field of Health and Medicine and approaches to treat and cure complex degenerative, Neurological and genetic, acquired as well as hereditary disorder and to restore the function of tissues and cells in the damaged and missing organs by other therapies. North America takes the lead in global market in 2015 and expected to remain ascendant during 2015-2022. Stem Cell Therapies are also used to treat cancer and different immunodeficiency and Auto immune syndromes. And now Stem Cells are also stands as a new weapon against Neurodegenerative Diseases, cardiovascular Diseases. Eyesight syndromes, wound healing, spinal cord injury, etc.

The worldwide Stem cell & regenerative medicines market is functional with several parameters like product type, application, sources, geography and users. In focused to the product type stem cells market is divided into human embryonic stem cells, adult stem cells, IPsec's, etc. Whereas, regenerative medicines applied the potential of these stem cells to regenerate, repair & replace tissues or the organ which are affected due to injury, natural aging process, and some diseases.

These novel approaches are able to restore the performance of cells & tissues and applied in broad range of fields starting form Tissue Engineering to cosmetic surgery therefore, now it seeks the central attraction of researchers to focuses on the new technologies like Utilization of Nano-materials in immunomodulation, drug delivery to make the growth in regenerative medicines market and blend it with stem cell culture to open new insights, possibilities which can bring evolution in the field of medicine.

Market Study of Stem Cells & Regenerative Medicine:

Europe: The regenerative medicine & stem cells market is expected to reach USD 13.578 billion by 2022 from USD 5.06 billion in 2016 at a CAGR of 21.80% during the period 2016-2022.

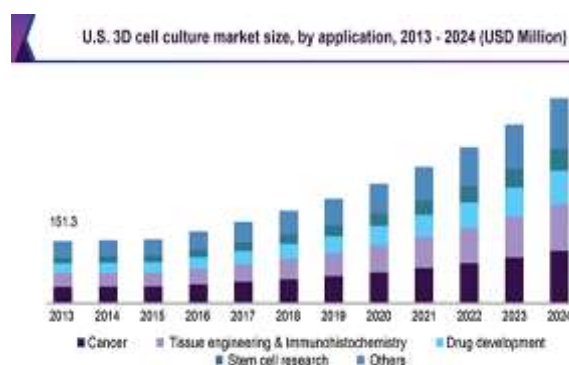
Middle East: The regenerative medicines market is expected \$ 40.55 billion revenue in 2022 from \$ 17.03

billion revenue in 2016.

USA: The regenerative medicine & stem cell market is assuming to reach \$38.70 billion by the year 2022 from \$ 13.33 billion in 2016 at a CAGR of 23.56%.

The global stem cells market is expected to grow at an incredible CAGR of 25.5% from 2015 to 2022 and reach a market value of US\$297 billion by 2022. The emergence of Induced Pluripotent Stem cells as an alternative to ESCs (embryonic stem cells), growth of developing markets, and evolution of new stem cell therapies represent promising growth opportunities for leading players in this sector.

Due to the increased funding from Government and Private sector and rising global awareness about stem cell therapies and research are the main factors which are driving this market. A surge in therapeutic research activities funded by governments across the world has immensely propelled the global stem cells market. However, the high cost of stem cell treatment and stringent government regulations against the harvesting of stem cells are expected to restrain the growth of the global stem cells market.

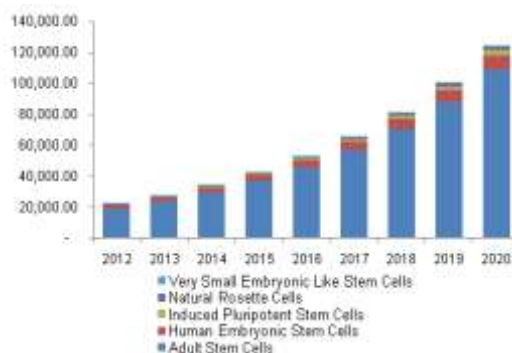


Whereas the Europe Stem cell market is estimated to grow at a CAGR of 9.45% by the end of the forecast period of 2018-2026. The market is chiefly progressing due to increasing R&D investments in adult stem cell research in the region, ease of administration and the growing incidences of chronic disease due to the changing lifestyles of the population.

The countries analysed in the Europe Stem cell market are UK, France, Germany, Spain, Italy and rest of Europe. Most of these countries have a stable economic environment, enabling their population to spend more

on their health. In this report, the Europe stem cell market has been segmented based on technology, product and applications. At present, the regenerative medicine application accounts for a high revenue share. Because of their use in regenerative therapies, stem cells are increasingly finding applications in the fields of neurological and haematological disorders, and in areas such as organ transplants, Crohn's disease, systemic lupus, and infertility.

The worldwide Stem cell & regenerative medicines market is functional with several parameters like product type, application, sources, geography and users. In focused to the product type stem cells market is divided into human embryonic stem cells, adult stem cells, iPsec's, etc. Whereas, regenerative medicines applied the potential of these stem cells to regenerate, repair & replace tissues or the organ which are affected due to injury, natural aging process, and some diseases.



Oct 03, 2019 (The Express wire) -- The Stem Cell Therapy Market report covers industry chain analysis, latest market trends & dynamics along with cost profit analysis of major key players which focuses on expansion rate, prices, competition, size, prices, and value chain analysis of those leaders in the market. The report covers the market landscape and its development prospects over the coming years.

The Stem Cell Therapy Market 2019 report provides realistic and purposeful details of the market, that assist you in promoting ideas with research-based factors. It offers in-depth data, improves variations of the worldwide Stem Cell Therapy Market to help you in deciding the final strategy. It features far-reaching information in terms of changing market dynamics, manufacturing trends, structural changes in the market, and the latest developments. Stem Cell Therapy Market to grow at a CAGR of 36.52% during the period 2017-2021.

About stem cell therapy

Stem cell therapy is the use of stem cells for the treatment or prevention of a disease or condition. Bone marrow transplant is the widely-used stem cell therapy, followed by therapies derived from umbilical cord blood. Research is being undertaken to develop various sources (such as cord blood cells, bone marrow, and skin) for stem cells, and to apply them to various disorders like neurodegenerative diseases and conditions such as heart disease, diabetes, and other conditions.

Market analysts forecast the global stem cell therapy market to grow at a CAGR of 36.52% during the period 2017-2021.

Market driver

- Increase in federal funding in stem cell therapy
- For a full, detailed list, view our report

Market challenge

- Stringent regulatory environment affecting the product approvals
- For a full, detailed list, view our report

Market trend

- Evolution of new destinations in the development of stem cell therapies
- For a full, detailed list, view our report

Key Players

- Holostem Advanced Therapies
- JCR Pharmaceuticals

Stem Cell Market

The [stem cell](#) market is experiencing growth, owing to the increasing number of clinical trials around the world. North America, especially the United States, dominated the number of trials undergoing in stem cell therapies. The United States dominates the market in both the products and banking services segments, holding around 77.4% of the total North American market. However, Asia-Pacific is growing at the highest growth rate. Stem cells are majorly used in regenerative medicine, especially in the field of dermatology. However, oncology is expected to grow at the highest growth rate, due to a large number of pipeline products present for the treatment of tumours or cancers. With the increase in the number of regenerative medicine centres, the stem cell market is also expected to increase in the future.

Stem cells banking is gaining importance with the support of government initiatives. The number of stem cell banks is increasing in developing countries, which is

aiding the growth of the market. Also, increasing awareness about stem cell storage among the people has positively affected the market. Currently, the market is not well established in many therapeutic areas and has shown nascent success in history. However, it holds great potential in both the diagnosis and therapeutic fields.

Scope of the Report

The scope of this market is limited to tracking the stem cell market. As per the scope of this report, stem cells are biological cells that can differentiate into other types of cells. Also, various types of the stem cells are used for therapeutic purposes.

Key Market Trends

Oncology Disorders Segment is Expected to Exhibit Fastest Growth Rate Over the Forecast Period

Cancer has a major impact on society in the United States and across the world. As per the estimation of National Cancer Institute, in 2018, 1,735,350 new cases of cancer were anticipated to get diagnosed in the United States, and 609,640 deaths were expected from the disease. This increasing medical burden is due to population growth. Bone marrow transplant or stem cell transplant is a treatment for some types of cancers, like leukaemia, multiple myeloma, multiple myeloma, neuroblastoma, or some types of lymphoma.

Embryonic stem cells (ESC) are the major source of stem cells for therapeutic purposes, due to their higher totipotency and indefinite lifespan, as compared to adult stem cells with lower totipotency and restricted lifespan. However, the use of ESCs for research and therapeutic purposes is restricted and prohibited in many countries throughout the world, due to some ethical constraints. Scientists from the University of California, Irvine, created the stem cell-based approach to kill cancerous tissue, while preventing some toxic side effects of chemotherapy by treating the disease in a more localized way.

Although the market shows positive growth, due to the growing focus of stem cell-based research that can further strengthen the clinical application, its expensive nature for stem cell therapy may still hamper its growth.

North America Captured The Largest Market Share and is Expected to Retain its Dominance

North America dominated the overall stem cell market with the United States contributing to the largest share in the market. In 2014, the Sanford Stem Cell Clinical Centre at the University of California, San Diego (UCSD) Health System, announced the launch of a clinical trial, in order to assess the safety of neural stem cell-based therapy in patients with chronic spinal cord injury.

Researchers hoped that the transplanted stem cells may develop into new neurons that could replace severed or lost nerve connections, and restore at least some motor and sensory functions. Such numerous stem cell studies across the United States have helped in the growth of the stem cell market.

Competitive Landscape

The stem cell market is highly competitive and consists of several major players. In terms of market share, few of the major players currently dominate the market. The presence of major market players, such as Thermo Fisher Scientific, Qiagen NV, Sigma Aldrich (A Subsidiary of Merck KGaA), Becton, Dickinson and Company, and Stem Cell Technologies, is in turn, increasing the overall competitive rivalry in the market. The product advancements and improvement in stem cell technology by the major players is increasing the competitive rivalry.

Related Societies and Associations:

Europe:

- Belgian Society for Stem Cell Research
- UK Stem Cell Foundation
- International Stem Cell Forum
- British Society for Gene and Cell Therapy
- UK Regenerative Medicine Platform
- Austrian Society of Regenerative Medicine
- Scan Balt Stem Cell Research Network
- Student Society for Stem Cell Research
- Norwegian Center for Stem Cell Research
- Lund Stem Cell Center
- Stem Cell Network North Rhine-Westphalia
- UK Stem Cell Bank
- European Group for Blood and Marrow Transplantation
- Israel Stem Cell Society

USA:

- Maryland Stem Cell Research Commission
- Harvard College Stem Cell Society
- International Society for Cellular Therapy
- California Institute for Regenerative Medicine
- American Society of Transplantation
- American Society for Matrix Biology
- American Society for Cell Biology
- National Stem Cell Foundation
- Perinatal Stem Cell Society
- International Placenta Stem Cell Society

- American Society for Blood and Marrow Transplantation
- Columbia University Stem Cell Initiative
- The American Regenerative Medicine Society

Asia Pacific and Middle East:

- Hong Kong Stem Cell Society
- Chinese Society for Cell Biology
- Korean Society for Stem Cell Research
- Pakistan Stem Cell Society
- Stem Cell Thai Red Cross
- Iranian Stem Cell Council
- The Japanese Society for Regenerative Medicine
- Formosa Association Regenerative Medicine
- Iranian Society for Hematopoietic Stem Cell Transplantation
- International Society of Regenerative Medicine
- Japan Human Cell Society