International Conference on Cell Science and Molecular Biology

Liliana Rubio,

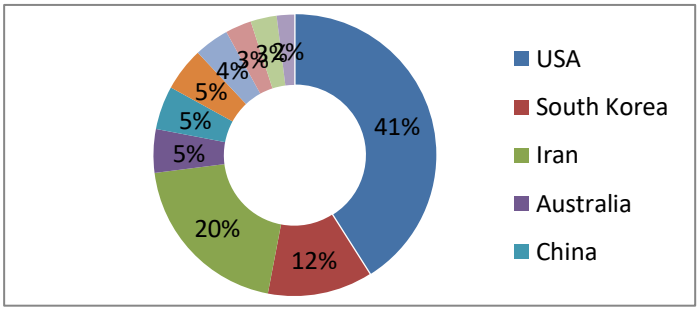
Brazil, E-mail: liliana_rubio98@gmail.com

Market Analysis Report

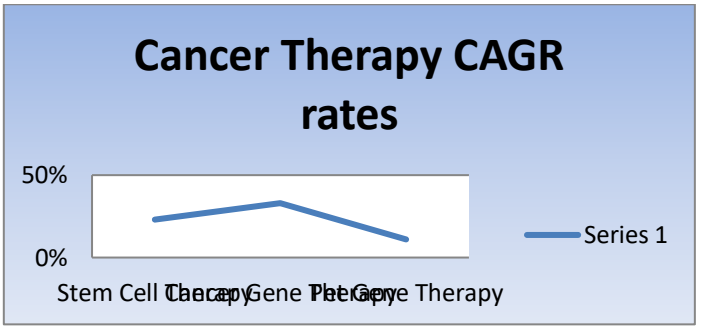
The stem cell market is experiencing growth, owing to the increasing number of clinical trials around the world. North America, especially the United States, dominated the number of trials undergoing in stem cell therapies. The United States dominates the market in both the products and banking services 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 tumors or cancers. With the increase in the number of regenerative medicine centers, 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.

The global stem cell therapy market is estimated to grow with a CAGR of 27.99% in duration 2019-2025 increasing approach to reach USD 167.34 million. The factors like stem cell preservation or banking globally, target to heart disease, diabetes, neurodegenerative diseases, musculoskeletal disorders, spinal cord injury, stroke, autoimmune diseases, major trauma and their therapeutics, clinical trials and ethics related to the use of stem cell transplants and preservation which grows in expanding and flourishing the global market of stem cell therapy with maximum clinical trials in countries like USA, Iran, South Korea, Australia, China, Spain, Israel, India, Canada, Germany, etc. However, stem cell research using human embryo is illegal in Germany and many other countries.

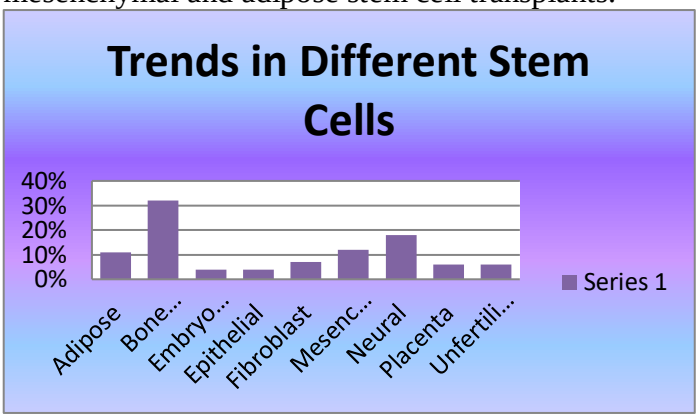


As per the current reports the Cancer Stem Cell Therapeutics have created effective growth by introducing cell therapy manufacturing, genomic analysis technique and various researches proved the effective transplant of stem cells and their growth factors, with bone marrow transplant with higher success rate in treatment of cancer.



As per sources the stem cells are divided into two types: Differentiated Stem Cells and Undifferentiated Stem and as such are the types of Stem Cell Transplants like Adipose tissue transplant, bone marrow transplant, embryonic stem cell transplant, fibroblast stem cell transplant, mesenchymal stem cell transplant, neural stem cell transplant, placenta stem cells and unfertilized egg stem cell preservation for future transplant when required. Among these

various types of transplants the bone marrow transplant is more prominent in therapeutics. Recent researches are going on with the neural, mesenchymal and adipose stem cell transplants.



With the increasing growth in the global market, stem cells and regenerative medicine are setting trends in the field of health and medicine.

Scope and Importance

Cell Stem Cell is a broad-based journal covering the entire stem cell biology spectrum. The topics covered include embryonic stem cells, pluripotence, germline stem cells, tissue-specific stem cells, stem cell differentiation, epigenetics, stem cell genomics and system biology, genome reprogramming, stem cell cancer cells, stem cell niches, stem cell models, nuclear transfer technology, Bioengineering, drug discovery, in vivo stem cell imaging, therapeutic applications, regenerative medicine, clinical and translational insights, stem cell research policies, ethical issues, and resource-based or technical innovations. Research from any model system that provides insights into stem cell biology will be accepted and submissions on human stem cells will be welcomed.

For many purposes, stem cells are essential to living organisms. In the 3-to 5-day embryo, called a blastocyst, the inner cells give rise to the organism's entire body, including all the many specialized types of cells and organs such as the heart, lung, skin, sperm, eggs, and other tissues. In some adult tissues, such as bone marrow, muscle, and brain, discrete populations of adult stem cells generate replacements for cells that are lost through normal wear and tear, injury, or disease.

In all areas of stem cell research, Cell Stem Cell publishes research reports detailing new results of remarkable significance. Every issue also includes a wide range of review and evaluation papers covering topics related to stem cell research from basic biological developments to issues of ethics, policy, and funding.

Stem cell laboratory studies allow scientists to learn about the essential properties of the cells and what distinguishes them from specialized types of cells. In the laboratory, researchers are already using stem cells to screen new drugs and develop model systems for testing normal growth and discovering the causes of birth defects.

Regenerative medicine is an interdisciplinary field that seeks to develop the science and tools that can help repair or replace damaged or diseased human cells or tissues in order to restore normal function, and holds the promise of revolutionizing 21st century treatment. It may include stem cell transplantation, progenitor cells or tissue, activation of the body's own processes of repair, or he use of cells as delivery-vehicles for therapeutic agents such as genes and cytokines.

All regenerative medicine approaches rely on processes of endogenous growth or repair being harnessed, stimulated or driven. Stem cell research thus plays a central role in regenerative medicine, which also includes tissue engineering, developmental cell biology, cell therapy, gene therapy, biomaterials (scaffolds and matrices), chemical biology and nanotechnology.

Promoting stem cell research, regenerative medicine and advanced therapeutics more broadly is a priority for us and for the UK government.

Target Audience:

- Scientists/Researchers
- Professors
- President/Vice president
- Chairs/Directors
- Data Scientists
- Students
- Experts and Delegates

Stem Cell Related Companies:

- Admedus
- 3-D Matrix
- Histogen

- Prellis Biologics
- Revotek
- Cerapedics
- Bio-Tissue
- NovaBone
- TissueTech
- GraftysFrance
- Mega Biopharma
- EPISKIN France
- Humeltis
- ACS-Biotech
- ROKIT
- Epithelix Sarl
- Novothelium
- DiscGenics
- Humacyte
- EpiBone
- Fesarius
- Cytex Therapeutics
- Indee Labs
- Orig3n
- Blue Rock Therapautics
- Rooster Bio
- Regeneus
- Integra life sciences
- Promethera biosciences
- Rubius Therapautics

Stem Cell Related Societies :

- California Institute for Regenerative Medicine (CIRM)
- New York State Stem Cell Science Program (NYSTEM
- New York Stem Cell Foundation (NYSCF)
- Stem Cell Network (SCN
- Brazilian Association for Cell Therapy ABTCel
- National Network of Cell Therapy
- Australasian Society for Stem Cell Research (ASSCR)
- Japanese Society for Regenerative Medicine
- Korean Society for Stem Cell Research
- Stem Cell Society Singapore (SCSS)
- Stem Cells Australia
- Taiwan Society for Stem Cell Research
- The National Stem Cell Foundation of Australia
- Associazione di Biologia Cellulare e del Differenziamento (ABCD)
- Belgian Society for Stem Cell Research (BeSSCR)
- Danish Stem Cell Society (DASCS)
- EuroStemCell