Pravin Patel et.al., J Cell Sci Ther 2018, Volume 9
DOI: 10.4172/2157-7013-C2-044

Stem cell for diabetes and joints

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The stem cell technologies and the therapeutic areas are in which stem cells find many applications on challenges in clinical complication and therapy. The stem cell research and therapy is progressing Market segmented by type, technology and therapeutic area. In few countries the resolutions have been taken to accept stem cells and cell based products as Drug. In India the government has took the initiatives with the guidance of Our Prime minister to accept the as drug and various application of Stem cell therapy. The Stem cells are classified in to adult, Embryonic and cord blood. The stem cell research applied technology segmented in to cord blood banking Xeno-transplantation and organ development, repair and others applications. The therapeutic applications of stem cell research are explored to various degenerative diseases of neurology, bone and cartilage, cancer, hematology, cardiology, diabetes, dermatology hepatology and other. The geo graphical projections and estimations of progress of stem cell research is illustrated as the various regions encompassing North America, Europe, Asia-Pacific and Rest of World.

Cell and Cellular Therapies

Stem cell applications have been explored by various schools of Cell biologist and many newer applications are still under development because of the rules and restrictions of regulatory approvals of the trials and unavailability of sponsors and unacceptance of various applications. In some cases, like Arthritis Osteoarthritis, Cartilage damage spinal cord injury and heart attacks, the cells are directly injected into the damaged tissues. Significant progress has been made in understanding the challenges to successful stem cell therapy, such as the effects of age or disease on stem cell properties, altered stem cell function in Arthritis cases We observed that the reduction of pain according to the pain scale reduced drastically in patients with age group between 45-50 and above >65. Similarly we could observe Type II Diabetes cases the reduction of HbA1c 5.1+ 1 in age group of 25-45 where as age group 45-65 was 6.1+.25.

Future of Stem cells applications

By international scientific community exploration of the stem cell application for treating various diseases list has been continues to grow at a rapid pace. Stem cell has the potential to become different cell types are the key, scientists are exploring the possibility of using cord blood stem cells to treat some of the most common life-threatening diseases such as heard diseases and stroke. Now the technologies like regeneration of the organ by means of a strategy to address the problems like Shortage of organ supply in terms of Tissue matching, GVHR, Short supply of Donors, and other ethical issues. The recent technology application of 3D printing integrated technology for creating an organ using autologous stem cells will be future of Stem cell technologies.

Biography

Dr. Pravin Patel has expertise in evaluation and passion in improving the health and wellbeing. Of patients who is being suffering chronically through the alternative medicine. His openness to accept the new development and acceptance of new innovative technologies to address the problems of the patients. His vast experience in Lifestyle related complications and age-related complication. His constructive suggestions and directions create new pathways for improving healthcare. He has built these treatment strategies after years of experience in research, evaluation, and administration both in hospital US and India.

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