



Stem Cells in Regenerative Medicine: Stem Cells Applications in Regenerative Medicine and Disease Therapeutics (Paperback)

By Daniel Cebo

Createspace Independent Publishing Platform, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Regenerative medicine, the most recent and emerging branch of medical science, deals with functional restoration of tissues or organs for the patient suffering from severe injuries or chronic disease. The spectacular progress in the field of stem cell research has laid the foundation for cell based therapies of disease which cannot be cured by conventional medicines. The indefinite self-renewal and potential to differentiate into other types of cells represent stem cells as frontiers of regenerative medicine. The transdifferentiating potential of stem cells varies with source and according to that regenerative applications also change. Advancements in gene editing and tissue engineering technology have endorsed the ex vivo remodelling of stem cells grown into 3D organoids and tissue structures for personalized applications. This book outlines the most recent advancement in transplantation and tissue engineering technologies of ESCs, TSPSCs, MSCs, UCSCs, BMSCs, and iPSCs in regenerative medicine. Additionally, this book also discusses stem cells regenerative application in wildlife conservation.



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