

1. Record Nr.	UNINA9910373939503321
Titolo	Cell Biology and Translational Medicine, Volume 6 : Stem Cells: Their Heterogeneity, Niche and Regenerative Potential // edited by Kursad Turksen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-32823-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VIII, 223 p. 1 illus.)
Collana	Cell Biology and Translational Medicine, , 2522-090X ; ; 1212
Disciplina	616.02774
Soggetti	Stem cells Regenerative medicine Tissue engineering Gene therapy Genetic engineering Stem Cells Regenerative Medicine/Tissue Engineering Gene Therapy Genetic Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Addressing variability and heterogeneity of induced pluripotent stem cell-derived cardiomyocytes -- Direct Lineage Reprogramming in the CNS -- Induced pluripotent stem cells for regenerative medicine: Quality control based on evaluation of lipid composition -- Decellularized Adipose Tissue: Biochemical composition, in vivo analysis and potential clinical applications -- Decellularization Concept in Regenerative Medicine -- Synovium-derived mesenchymal stem/stromal cells and their promise for cartilage regeneration -- Skin stem cells, their niche and tissue engineering approach for skin regeneration -- Neurological regulation of the bone marrow niche -- Homeobox genes and homeodomain proteins: new insights into cardiac development, degeneration and regeneration -- Generation of human stem cell-derived pancreatic organoids (POs) for regenerative medicine.

Much research has focused on the basic cellular and molecular biological aspects of stem cells. Much of this research has been fueled by their potential for use in regenerative medicine applications, which has in turn spurred growing numbers of translational and clinical studies. However, more work is needed if the potential is to be realized for improvement of the lives and well-being of patients with numerous diseases and conditions. This book series 'Cell Biology and Translational Medicine (CBTMED)' as part of SpringerNature's longstanding and very successful Advances in Experimental Medicine and Biology book series, has the goal to accelerate advances by timely information exchange. Emerging areas of regenerative medicine and translational aspects of stem cells are covered in each volume. Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas. This current book is the sixth volume of a continuing series.
