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Nota di contenuto	Biomaterials for Regenerative Medicine: Historical Perspectives and Current Trends -- The Great Harmony in Translational Medicine: Biomaterials and Stem Cells -- Adult Stem Cell-based Strategies for Peripheral Nerve Regeneration -- Immunomodulatory Behavior of Mesenchymal Stem Cells -- Gene Therapy Strategies in Bone Tissue Engineering and Current Clinical Applications -- Promotion of cell-based therapy: special focus on the cooperation of mesenchymal stem cell therapy and gene therapy for clinical trial studies -- Mesenchymal Stem Cells-Derived Exosomes for Wound Regeneration Adipose tissue-derived stromal cells for wound healing -- Selection of Suitable Reference Genes for Quantitative Real-Time PCR Normalization in Human Stem Cell Research -- Induced Pluripotent Stem Cells and Induced Pluripotent Cancer Cells in Cancer Disease Modeling.
Sommario/riassunto	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 fourth volume of a continuing series.