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Soggetti	Stem cells Regenerative medicine Medical genetics Biotechnology Stem Cell Biology Regenerative Medicine and Tissue Engineering Clinical Genetics Chemical Bioengineering
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Nota di contenuto	Therapeutic Cardiac Patches for Repairing the Myocardium -- Human Induced Pluripotent Stem Cells in the Curative Treatment of Diabetes and Potential Impediments Ahead -- CRISPR/Cas9 for Sickle Cell Disease: Applications, Future possibilities, and Challenges -- Photoresponsive Hydrogels with Photoswitchable Stiffness: Emerging Platforms to Study Temporal Aspects of Mesenchymal Stem Cell Responses to Extracellular Stiffness Regulation -- Cellular complexity at the interface: Challenges in entheses tissue engineering -- Induced Pluripotent Stem Cells in Disease Modelling and Regeneration -- Stem cells for the oromaxillofacial area: Could they be a promising source for regeneration in dentistry? -- Stem Cells Derived from Dental Tissues -- A Novel Virtue in Stem Cell Research: Exosomes and Their Role in Differentiation -- Mesenchymal Stem Cells as Regulators of Carcinogenesis.
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 fifth volume of a continuing series.
