Record Nr. UNINA9910790357803321 Biomaterials and stem cells in regenerative medicine / / edited by **Titolo** Murugan Ramalingam, Seeram Ramakrishna, Serena Best Pubbl/distr/stampa Boca Raton, Fla.:,: CRC Press,, 2012 **ISBN** 0-429-06665-1 1-4398-7926-5 Descrizione fisica 1 online resource (553 p.) Collana BASEES/Routledge Series on Russian and East European Studies Classificazione MED009000TEC021000 Altri autori (Persone) RamalingamMurugan RamakrishnaSeeram BestSerena Disciplina 610.28 Soggetti Biomedical materials Stem cells - Therapeutic use Regenerative medicine - Materials Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Front Cover; Contents; Preface; Editors; Contributors; Chapter 1 -Nota di contenuto Identification and Application of Polymers as Biomaterials for Tissue Engineering and Regenerative Medicine; Chapter 2 - Hydrogel as Stem

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Sommario/riassunto

This book bridges the gap in experimental approaches and understanding among the key areas of biomedical research. It provides all-important aspects dealing with the basic science involved in structure and properties, techniques and technological innovations in processing and characterizations, and applications of biomaterials and stem cells in tissue regeneration. The coverage ranges from fundamental principles to current technological advancements in the major field of regenerative medicine at the macro/micro/nano/molecular scales. It includes breakthroughs in biomaterials, stem cells, tissue engineering, and drug delivery and the current perspectives of these key elements in the context of regenerative medicine--