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| 1. Record Nr. | UNINA9910483456503321 |
| Titolo | Biomaterials in Tissue Engineering and Regenerative Medicine : From Basic Concepts to State of the Art Approaches / / edited by Birru Bhaskar, Parcha Sreenivasa Rao, Naresh Kasoju, Vasagiri Nagarjuna, Rama Raju Baadhe |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021 |
| ISBN | 981-16-0002-3 |
| Edizione | [1st ed. 2021.] |
| Descrizione fisica | 1 online resource (587 pages) |
| Collana | Biomedical and Life Sciences Series |
| Disciplina | 610.284 |
| Soggetti | Biotechnology Regenerative medicine Stem cells Nanotechnology Regenerative Medicine and Tissue Engineering Stem Cell Biology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Module 1_Fundamentals of Biomaterials -- Module 2_Biomaterials in Tissue engineering -- Module 3_Applications of Biomaterials -- Module 4_Advances in Biomaterials. |
| Sommario/riassunto | This book comprehensively explores the basic concepts and applications of biomaterials in tissue engineering and regenerative medicine. The book is divided into four sections; the first section deals with the basic concepts and different types of biomaterials used in tissue engineering. The second section discusses the functional requirements and types of materials that are used in developing state-of-the-art of scaffolds for tissue engineering applications. The third section presents the applications of biomaterials for hard and soft tissue engineering, as well as for specialized tissue engineering. The last section addresses the future prospects of nanobiomaterials, intelligent biomaterials, and 3D bioprinting biomaterials in tissue engineering and regenerative medicine. It also discusses various in vitro disease models for tissue bioengineering and regenerative |

medicine. As such, it offers a valuable resource for students, researchers, scientists, entrepreneurs, and medical/healthcare professionals.
