1. Record Nr. UNINA9910683340703321

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| Titolo | Cell biology and translational medicine . Volume 18. : tissue differentiation, repair in health and disease / / edited by Kursad Turksen |
| Pubbl/distr/stampa | Cham, Switzerland : , : Springer Nature Switzerland AG, , [2023]<br>©2023 |
| ISBN | 9783031284243<br>9783031284236 |
| Edizione | [1st ed. 2023.] |
| Descrizione fisica | 1 online resource (210 pages) |
| Collana | Cell Biology and Translational Medicine, , 2522-0918 ; ; 1409 |
| Disciplina | 616.02774 |
| Soggetti | Stem cells<br>Tissue engineering<br>Tissues - Differentiation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Mitochondrial Permeability Transition in Stem Cells, Development, and Disease -- HSF1, Aging, and Neurodegeneration -- Pathophysiology of Spinal Cord Injury and Tissue Engineering Approach for Its Neuronal Regeneration: Current Status and Future Prospects -- Application of Biocompatible Scaffolds in Stem-Cell-Based Dental Tissue Engineering -- Therapeutic Perspectives for the Clinical Application of Umbilical Cord Hematopoietic and Mesenchymal Stem Cells: Overcoming Complications Arising After Allogeneic Hematopoietic Stem Cell Transplantation -- Advanced Nanotechnology Approaches as Emerging Tools in Cellular-Based Technologies -- Generation of a Beta-Cell Transplant Animal Model of Diabetes Using CRISPR Technology -- The Link Between Heat Shock Proteins, Renin-Angiotensin System, and the Coagulation Cascade in the Pathogenesis of the Coronavirus-19 Disease -- Aptamer-Based Tumor-Targeted Diagnosis and Drug Delivery -- Heat Shock Proteins: Central Players in Oncological and Immuno-Oncological Tracks. |
| 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 Springer Nature’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 18th volume of a continuing series.