

| | |
|-------------------------|--|
| 1. Record Nr. | UNINA9910787755503321 |
| Titolo | Stem cell-dependent therapies : mesenchymal stem cells in chronic inflammatory disorders // edited by Gerhard Gross, Thomas Haupl |
| Pubbl/distr/stampa | Berlin : , : Walter de Gruyter GmbH & Company, , [2013] ©2013 |
| ISBN | 3-11-029830-9 |
| Descrizione fisica | 1 online resource (428 p.) |
| Altri autori (Persone) | GrossGerhard <1949-> HauplThomas |
| Disciplina | 616/.0473 |
| Soggetti | Inflammation Mesenchymal stem cells - Transplantation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di contenuto | Frontmatter -- Preface -- Contributing authors -- Table of Contents -- 1 Mesenchymal stem cells in the context of stem cell biology / Durand, Charles / Charbord, Pierre -- 2 Are mesenchymal stem cells immune privileged? / Zhang, Shang / Hollander, Anthony P. / Wraith, David C. -- 3 Mesenchymal stem cell therapies for autoimmune diseases / Tyndall, Alan / Bocelli-Tyndall, Chiara -- 4 Mesenchymal stem cells in osteoarthritis and rheumatic disease / Kurtz, Andreas / Oh, Su-Jun -- 5 Mesenchymal stem cells in enthesis formation and repair / Hoffmann, Andrea / Seiffart, Virginia / Laggies, Sandra / Gross, Gerhard -- 6 Mesenchymal stem cells for clinical/therapeutic interventions of graft-versus-host disease / Ringdén, Olle / Sadeghi, Behnam -- 7 Mesenchymal stem cells for graft-versus-host disease in experimental animal models / Sadeghi, Behnam / Ringdén, Olle -- 8 Mesenchymal stem cells and organ transplantation : initial clinical results / Pileggi, Antonello / Xu, Xiumin / Tan, Jianming / Ricordi, Camillo -- 9 Stem cell therapy in patients with ischemic heart disease / Qayyum, Abbas Ali / Kastrup, Jens -- 10 Mesenchymal stem cells as a strategy for the treatment of multiple sclerosis and other diseases of the central nervous system / Cordano, Christian / Kerlero de Rosbo, Nicole / Uccelli, Antonio -- 11 Mesenchymal stem cells for the treatment of inflammatory bowel disease / Dennis, James E. / Lord, James D. -- 12 |

Mesenchymal stem cells in chronic lung diseases: COPD and lung fibrosis / Weiss, Daniel J. / Rojas, Mauricio -- 13 Mesenchymal stem cells as therapeutics for liver repair and regeneration / Porada, Christopher D. / Almeida-Porada, Graça -- 14 Mesenchymal stem cells attenuate renal fibrosis / Almeida, Danilo Candido de / Taemi Origassa, Clarice Silvia / Bassi, Ênio Jose / Olsen Saraiva Câmara, Niels -- 15 Immunomodulation by mesenchymal stem cells - a potential therapeutic strategy for type 1 diabetes / Mounayar, Marwan / Magee, Ciara N. / Abdi, Reza -- 16 Fibrogenic potential of human multipotent mesenchymal stem cells in inflammatory environments / Gonelle-Gispert, Carmen / Bühler, Léo H. -- 17 Mesenchymal stem cells and the tumor microenvironment / Bergfeld, Scott A. / DeClerck, Yves A. -- 18 Mesenchymal stem cells as a carrier for tumor-targeting therapeutics / Chang, Astra I. / Nolta, Jan A. / Wu, Jian -- 19 Systems biology approach to stem cells, tissues and inflammation / Häupl, Thomas -- Index

Sommario/riassunto

Multipotent mesenchymal stem cells (MSCs) are a heterogeneous population of cells which reside in a variety of tissues. They differentiate into several mesodermal lineages, secrete a multitude of trophic factors and contribute to tissue homeostasis. MSCs are able to exert immunosuppressive activities by interfering with inflammatory cytokine production and with T- and B-cell proliferation. These immunomodulating properties make MSCs promising candidates for the treatment of chronic inflammatory and autoimmune disorders. There are, however, certain caveats involved including inappropriate migration of cells in the body, immune rejection, tumor formation, or graft versus host disease (GvHD). This book investigates the current state of the MSC-dependent therapy of chronic inflammatory disorders and autoimmune diseases. Among the covered topics are GvHD, chronic kidney, liver and lung disease, ischemic heart and inflammatory bowel disease, diabetes, osteoarthritis, various rheumatic and neurological disorders and, lastly, tumors and solid organ transplantations. This book also questions the immunoprivileged status of MSCs, discusses the therapeutic role of MSCs in experimental animal disease models and their translation to the corresponding human disorders, envisions a role for MSCs in tumor interventions and, lastly, describes a systems biology approach for stem cells and inflammation.
