



Cell therapy, stem cells, and brain repair /

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Humana Press,
2006

Electronic books

Monografía

As our world continues to evolve, the field of regenerative medicine follows suit. Although many modern day therapies focus on synthetic and natural medicinal treatments for brain repair, many of these treatments and prescriptions lack adequate results or only have the ability to slow the progression of neurological disease or injury. Cell therapy, however, remains the most compelling treatment for neurodegenerative diseases, disorders, and injuries, including Parkinson's disease, Huntington's disease, traumatic brain injury, and stroke, which is expanded upon in more detail in Chapter 1 by Snyder and colleagues. Cell therapy is also unique in that it is the only therapeutic strategy that strives to replace lost, damaged, or dysfunctional cells with healthy ones. This repair and replacement may be due to an administration of exogenous cells itself or the activation of the body's own endogenous reparative cells by a trophic, immune, or inflammatory response to cell transplantation. However, the precise mechanism of how cell therapy works remains elusive and is continuing to be investigated in terms of molecular and cellular responses, in particular. Moreover, Chapter 11 by Emerich and associates, discusses some of the possibilities of cell immunoisolation and the potential for treating central nervous system diseases

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Título: Cell therapy, stem cells, and brain repair edited by Cyndy Davis Sanberg and Paul R. Sanberg

Editorial: Totowa, N.J. Humana Press 2006

Descripción física: 1 online resource (xvi, 391 pages) illustrations (some color)

Mención de serie: Contemporary neuroscience

Bibliografía: Includes bibliographical references and index

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ISBN: 1588295028 alk. paper) 9781588295026 9781597451475 electronic bk.) 1597451479 electronic bk.) 1280832371 9781280832376 9786610832378 6610832374

Materia: Cellular therapy Neural stem cells Brain- Diseases- Treatment Brain Diseases- therapy Stem Cell Transplantation Cell Differentiation- physiology Stem Cells- physiology Thérapie cellulaire Cellules souches neurales Cerveau- Maladies- Traitement HEALTH & FITNESS- Diseases- Nervous System (incl. Brain) MEDICAL- Neurology. Biomédecine. Sciences de la vie. Brain- Diseases- Treatment. Cellular therapy. Neural stem cells.

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Enlace a formato físico adicional: Print version Cell therapy, stem cells, and brain repair. Totowa, N.J. : Humana Press, 2006 1588295028 9781588295026 (DLC) 2005034441 (OCOLC)62421148

Punto acceso adicional serie-Título: Contemporary neuroscience

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