



Advances in Stem Cell Therapy : Bench to Bedside /

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Springer International Publishing :
Imprint: Humana Press,
2017

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Monografía

The book reviews the main approaches for generation of differentiated cells from various types of stem cells, including embryonic, placental and cord blood stem cells through marrow, adipose tissue and dental pulp. The book starts with an overview of experimental protocols applied to generate insulin secreting cells, neural cells, heart cells, and other tissue specific cells ex vivo and in experimental animals. This is followed by exhaustive review of clinical trials in these pathologies. It continues with a comparison of the merits of successful transplantation in humans versus animal experimentation, and highlights the most promising clinical applications in the field. Special chapters are devoted to the topic of tissue engineering and modern synthetic and biological scaffolds. It is essential reading for scientists and researchers in tissue engineering and stem cell research as well as clinicians who are involved in developing or testing stem cell therapies

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Título: Advances in Stem Cell Therapy Bench to Bedside edited by Nagwa El-Badri

Editorial: Cham Springer International Publishing Imprint: Humana Press 2017

Descripción física: 1 recurso en línea XVI, 310 p. 31 il., 29 il. en color

Mención de serie: Springer eBooks Stem Cell Biology and Regenerative Medicine 2196-8985

Contenido: Hematopoietic stem cell transplantation in pediatric diseases -- Stem Cell Therapy In Diabetic Mellitus -- Stem Cell Therapies in Neurological Disorders -- Stem Cells in the Diseases of the Aging -- Therapeutic Prospects of Stem Cells in Benign Urological Conditions -- Clinical Applications of Stem Cells in Women's Reproductive system -- Adipose Derived Stem Cell-Based Therapies in Regenerative Medicine -- Advances in Umbilical Cord Blood Therapy: Hematopoietic Stem Cell Transplantation and Beyond -- Dental Pulp Stem Cells in Tissue Engineering and Regenerative Medicine: Opportunities for Translational Research -- Stem Cell Therapy and Tissue Engineering In Genitourinary Disorders -- Stem Cell Therapy in Autoimmune Diseases -- Treatment of Hepatic Malignancies and Disorders: The Role of Liver Bioengineering -- Advances in Micro and Nano Technologies for Stem Cell Based Therapies

Detalles del sistema: Modo de acceso: World Wide Web

ISBN: 9783319291499 978-3-319-29149-9

Materia: Life sciences Stem cells Life Sciences Stem Cells Ciencias biomédicas

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Entidades: SpringerLink (Online service)

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