

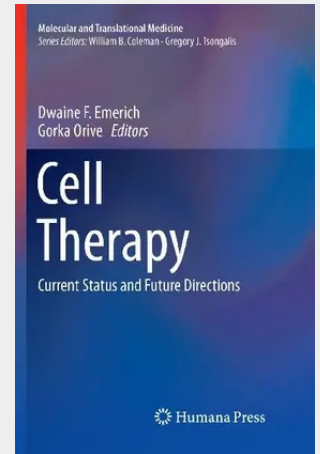
Cell Therapy

Current Status and Future Directions

This volume provides a comprehensive, state-of-the art review of the field of cell therapy. The volume begins with an overview of the breadth of the field and then turns to overviews of imaging technologies that can aid in both safety and efficacy evaluations. The book then turns to numerous contributions detailing the rapidly growing field of stem cell therapies. These sections cover our understanding of the natural roles of stem cells in biology and human disease and then touches on several of the more prominent areas where stem cells are moving rapidly into clinical evaluation including neurodegenerative diseases, muscular dystrophy, cardiac repair, and diabetes. The volume concludes with contributions from experts in oncology, ophthalmology, stem cells, 3-D printing, and biomaterials where the convergence of expertise is leading to unprecedented insights into how to minutely control the in vivo fate and function of transplanted and/or endogeneously mobilized cells. Finally, the book provides insights into the pivotal relationship between academic and industrial partnerships.

This volume is designed to touch on the major areas where the field will make its greatest and most immediate clinical impacts. This text will provide a useful resource for physicians and researchers interested in the rapidly changing field of cell therapy.

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128,39 €

119,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319860893

Medium: Buch

ISBN: 978-3-319-86089-3

Verlag: Springer

Erscheinungstermin: 18.08.2018

Sprache(n): Englisch

Auflage: Softcover Nachdruck of the original 1. Auflage 2017

Serie: Molecular and Translational Medicine

Produktform: Kartoniert

Gewicht: 595 g

Seiten: 328

Format (B x H): 155 x 235 mm

