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Titolo	Adult Stem Cell Therapies: Alternatives to Plasticity / / edited by Mariusz Z. Ratajczak
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Descrizione fisica	1 online resource (271 p.)
Collana	Stem Cell Biology and Regenerative Medicine, , 2196-8985
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1 Regenerative Medicine and the Search for Pluripotent/Multipotent Stem Cells -- 2 Novel Therapeutic Approaches in Regenerative Medicine: Adult Tissue-Derived Very Small Embryonic like Stem Cells and Harnessing Paracrine Signals of Adult Stem Cells -- 3 Cord Blood Stem Cells -- 4 Human CD34-negative Hematopoietic Stem Cells -- 5 Cell Therapies in Cardiology -- 6 Mechanisms Regulating Trafficking of Stem Cells in Ischemic Heart Disease -- 7 Stem Cell Therapies in Neurology -- 8 Stem Cell Compartment in Acute Psychotic Syndromes -- 9 Skin Regeneration and Circulating Stem Cells -- 10 Stem Cell Therapies in Neonatology -- 11 Pluripotent Very Small Embryonic-like Stem Cells in Adult Mammalian Gonads -- 12 Molecular Signature of Very Small Embryonic Like Stem Cells -- 13 Role of Extracellular Vesicles in Tissue/Organ Regeneration -- 14 Extracellular Vesicles and Tissue Organ Regeneration -- 15 Stem Cells in Infection and Sepsis.
Sommario/riassunto	This timely volume explores various techniques for tissue and organ regeneration using stem cells isolated from adult tissues. It discusses

alternative explanations of stem cell plasticity as well as current clinical results with adult stem cell therapies. It examines the presence of potential pluripotent stem cells in adult tissues, paracrine effects of stem cell therapies, and involvement of exosomes and microparticles into observed phenomena. Fifteen chapters, all written by noted leaders of their fields, focus on a variety of topics including cord blood and hematopoietic stem cells, skin and tissue organ regeneration, very small embryonic-like stem cells, and cell therapies in cardiology, neonatology, and neurology. Edited by Dr. Mariusz Ratajczak, an internationally known specialist in adult stem cell biology, Adult Stem Cell Therapies: Alternatives to Plasticity is an important addition to the Stem Cell Biology and Regenerative Medicine series.