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Descrizione fisica	1 online resource (290 p.)
Altri autori (Persone)	HoAnthony HoffmanRonald <1945-> ZanjaniEsmail D
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Clinical potentials of stem cells: hype or hope? -- Alteration of hematopoietic stem cell fates by chromatin-modifying agents -- Increasing impact of micro RNAs in stem cell biology and medicine -- Novel strategies for the mobilization of hematopoietic stem cell -- Pluripotent stem cells from umbilical cord blood -- Good manufacturing practices: clinical-scale production of mesenchymal stem cells -- The clonal activity of marked hematopoietic stem cell -- A large animal non-injury model for study of human stem cell plasticity -- Developmental potential of somatic stem cells following injection into murine blastocysts -- Testing the limits: the potential of MAPC in animal models -- Mesenchymal stem cells as vehicles for genetic targeting of tumors -- Endothelial progenitor cells for cardiac regeneration -- Stem cells and bypass grafting for myocardial and vascular regeneration -- Adoptive immunotherapy: guidelines and clinical practice -- Immune escape and suppression by human

	mesenchymal stem cells -- Stem cell transplantation: the basis for successful cellular immunotherapy.
Sommario/riassunto	This is the first handbook on the whole field of stem cell research covering (1) molecular and cellular fundamentals, (2) clinical applications and (3) GMP processing. It provides a timely overview of the potential and plasticity of adult stem cells. With its focus on standardization and quality control of cell lines suited for processing and clinical trials, the book features novel therapeutic approaches that offer great promise for new ways of treating neural, hematological and cardiovascular diseases.The editors are leading international experts in adult stem cell research, and their su