1.	Record Nr.	UNINA9910785546503321
	Titolo	Handbook of stem cells [[electronic resource]] . Volume 2 Adult and fetal stem cells / / editors, Robert P. Lanza, Anthony Atala
	Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier / AP, 2012
	ISBN	1-78402-376-0 0-12-385943-3
	Edizione	[2nd ed.]
	Descrizione fisica	1 online resource (1076 p.)
	Altri autori (Persone)	LanzaRobert <1956-> AtalaAnthony <1958->
	Disciplina	616.02774 616/.02774
	Soggetti	Stem cells Tissue engineering
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	e9780123859426v1; Front Cover; Handbook of Stem Cells: Volume 1: Pluripotent Stem Cells; REFERENCES; REFERENCES; REFERENCES; Chapter3 - Pluripotential Stem Cells from Vertebrate Embryos: Present Perspective and Future Challenges; Chapter16 - Primordial Germ Cells in Mouse and Human; Chapter61 - Neural Stem Cells - Therapeutic Applications in Neurodegenerative Diseases; Chapter78 - Histogenesis in Three-Dimensional Scaffolds; Chapter80 - Ethical Considerations; REFERENCES; REFERENCES; REFERENCES; FURTHER READING; Preface Chapter5 - The Molecular Circuitry Underlying Pluripotency in Embryonic Stem Cells and iPS CellsChapter27 - Homologous Recombination in Human Embryonic Stem Cells; MOLECULES THAT ORGANIZE CELLS; THE EMT TRANSCRIPTIONAL PROGRAM; MOLECULAR CONTROL OF THE EMT; REPAIR OF MYOCARDIAL DAMAGE BY RESIDENT PRIMITIVE CELLS; CONCLUSION; ACKNOWLEDGMENTS; STRUCTURAL COMPONENTS OF THE NICHE; GUIDELINES FROM THE NATIONAL ACADEMIES; MAMMALIAN TESTIS; HEMATOPOIETIC SYSTEM; Chapter9 - Cell Cycle Regulators in Stem Cells; INTRODUCTION; INTRODUCTION; INTRODUCTION; DEFINITIONS; Contributors Chapter50 - Peripheral Blood Stem CellsINTRODUCTION; Chapter63 -

	Sensory Epithelium of the Eye and Ear; ROLES OF P27 IN STEM CELL REGULATION; IMPLICATIONS FOR REGENERATIVE MEDICINE; MEDICINAL SIGNALING CELLS; SUMMARY; PANCREATIC ACINAR CELL TRANSDIFFERENTIATION; REFERENCES; REFERENCES; Chapter10 - Cell Fusion and the Differentiated State; Chapter35 - Potential of ES Cell Differentiation Culture for Vascular Biology; Chapter68 - Pancreatic Stem Cells; ACKNOWLEDGMENTS; REFERENCES; CONCLUSION; REFERENCES; DEDIFFERENTIATION AS A PREREQUISITE FOR TRANSDIFFERENTIATION GENETIC MODIFICATIONS OF HESC-DERIVED PROGENIESSUMMARY; CHALLENGES; TECHNICAL ASPECTS OF SOMATIC NUCLEAR TRANSFER; POSTNATAL TISSUE-SPECIFIC STEM CELLS - ARE SOME MORE THAN MULTIPOTENT?; TYPES AND SOURCE OF STEM CELLS IN THE PERIPHERAL BLOOD; THE BULGE AS A RESIDENCE OF EPITHELIAL SKIN STEM CELLS; BONE; EPIGENETIC REPROGRAMMING; PROMOTING HEMATOPOIETIC ENGRAFTMENT WITH STAT5 AND HOX84; GENE THERAPY USING NEURAL STEM CELLS; REFERENCES; REFERENCES; INTRODUCTION; INTRODUCTION; SYNTHETIC TRANSCRIPTION FACTORS FOR TARGETED GENE REGULATION PLURIPOTENT STEM CELLS FOR FUTURE CELL-BASED THERAPIESChapter14 - Differentiation in Early Development; PREIMPLANTATION DEVELOPMENT; Chapter67 - Stem Cells in the Gastrointestinal Tract; REFERENCES; REFERENCES; Chapter15 - Developmental Mechanisms of Regeneration; INTRODUCTION; Chapter22 - Embryonic Stem Cells: Derivation and Properties; Chapter23 - Genetic Approaches in Human Embryonic Stem Cells and their Derivatives: Prospects for Regenerative Medicine; INTRODUCTION; Chapter54 - Stem Cells and Heart Disease; CHOOSING LIFE; INTRODUCTION; INTRODUCTION; EMBRYONIC GERM CELLS; ACKNOWLEDGMENTS BASIC FIBROBLAST GROWTH FACTOR (FGF-2) AND KNOCKOUT SERUM REPLACER
Sommario/riassunto	New discoveries in the field of stem cells increasingly dominate the news and scientific literature revealing an avalanche of new knowledge and research tools that are producing therapies for cancer, heart disease, diabetes, and a wide variety of other diseases that afflict humanity. The Handbook of Stem Cells integrates this exciting area of life science, combining in two volumes the requisites for a general understanding of adult and embryonic stem cells. Organized in two volumes entitled Pluripotent Stem Cells & Cell Biology and Adult & Fetal Stem Cells, this work contains contributions