1. Record Nr. UNINA9910787852103321

Titolo	Stem cells : from basic research to therapy / / editors, Federico Calegari, DFG-Center and Cluster of Excellence for Regenerative Therapies, Dresden University of Technology, C/o Max Planck Institute of Molecular Cell Biology and Genetics, Dresden
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , [2014] ©2014
ISBN	0-429-07611-8 1-4822-1983-2
Descrizione fisica	1 online resource (474 p.)
Disciplina	616.02/774 616.02774
Soggetti	Stem cells Stem cells - Research Stem cells - Therapeutic use
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	Front Cover; Preface; Contents; Part I Tissue Homeostasis And Regeneration During Adulthood; Chapter 1 Dynamics And Aging Of Hematopoietic Stem Cells; Chapter 2 Cellular And Functional Aspects Of Adult Neurogenesis; Chapter 3 Mechanisms Of Wound Repair; Chapter 4 Two Faces Of Adult Blood Vessel Formation: Vasculogenesis And Angiogenesis; Chapter 5 Cancer Stem Cells: Lessons From Aml; Chapter 6 Skeletal Muscle Stem Cells; Part II Applications In Basic Research, Medicine And Industry Chapter 7 Visualization Of Neural Stem Cells For The Investigation Of Neural Development And Development Of Stem Cell TherapiesChapter 8 Biomaterials To Direct Stemcell Fate; Chapter 9 Stem Cell Applications For Pancreas Function; Chapter 10 Pluripotent Stem Cells From Livestock; Chapter 11 Stem Cell Markers; Part III Legislation And Ethics; Chapter 12 Towards A European Standard For Human Embryonic Stem Cell Research; Chapter 13 Democracies Of Stemness: Stem Cell Technologies From Generation To Regeneration; About The Authors;

	Color Plate Section; Back Cover
Sommario/riassunto	Preface: the first volume of Stem cells deals with the fundamental principles that govern embryonic and somatic stem cell biology. Historically, the identification and characterization of such pathways and general rules of stemness occurred during embryonic development and volume I reflects this with topics spanning from cell cycle regulation, epigenetics, and asymmetric cell division in a number of organ systems from planarian to human. Three specific sections will discuss(i) Basic stem cell biology, (ii) Tissue formation during development, and (iii) Model organisms with particular emphasis on those more relevant for biomedical research and, thus, leading to the topics addressed in volume II--Provided by publisher.