

1. Record Nr.	UNINA9910253947103321
Titolo	Stem Cell Microenvironments and Beyond // edited by Alexander Birbrair
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-69194-5
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XI, 270 p. 445 illus., 432 illus. in color.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 1041
Disciplina	616.02774
Soggetti	Stem cells Regenerative medicine Tissue engineering Cancer research Stem Cells Regenerative Medicine/Tissue Engineering Cancer Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1. Stem Cell Microenvironments and Beyond -- 2. The bone marrow microenvironment for hematopoietic stem cells -- 3. Leukemia stem cells microenvironment -- 4. Developmental HSC Microenvironments: Lessons from Zebrafish -- 5. Spinal cord stem cells microenvironment: the ependyme as a stem cell niche -- 6. Being a Neural Stem Cell: a matter of character but defined by the microenvironment -- 7. Glioblastoma Stem Cells and their Microenvironment -- 8. Plasticity of the Muscle Stem Cell Microenvironment -- 9. The Macula Flava of the Human Vocal Fold as a Stem Cell Microenvironment -- 10. Oesophageal stem cells microenvironment -- 11. Oral cancer stem cells microenvironment -- 12 Fetal membranes-derived stem cells microenvironment -- 13. Current technologies based on the knowledge of the stem cells microenvironments.
Sommario/riassunto	This book discusses the main stem cell niches under distinct pathophysiological conditions. The role of tissue microenvironments in

stem cell regulation, as well as modern methodologies and new techniques for the identification and characterization of stem cell niches, are discussed by leading experts in the field. Chapters describe the major components of various stem cell microenvironments, such as cellular components, soluble factors, cell-cell interactions, extracellular matrix proteins, and physical forces. *Stem Cell Microenvironments and Beyond* is part of the highly successful *Advances in Experimental Medicine and Biology* series. It is essential reading for graduate students and researchers in the field of stem cells or cell biology as well as clinicians.
