1. Record Nr. UNINA9910639878103321

Titolo	Cancer Stem Cell Markers and Related Network Pathways / / edited by Shihori Tanabe
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	9783031129742 9783031129735
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (163 pages)
Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 1393
Disciplina	610.28 616.99407582
Soggetti	Medicine - Research Biology - Research Medical genetics Medical microbiology Biomedical Research Medical Genetics Medical Microbiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Epithelial-mesenchymal transition and cancer stem cells -- 2. The transcription factors Zeb1 and Snail induce cell malignancy and can-cer stem cell phenotype in prostate cells, increasing androgen synthesis ca-pacity and therapy resistance -- 3. ERBB signaling pathway in cancer stem cells -- 4. Functional and molecular characters of cancer stem cells through devel-opment to establishment -- 5. Microenvironment in cancer stem cells -- 6. Cancer stem cells contribute to drug resistance in multiple different ways -- 7. Abnormal glycosylation in cancer cells and cancer stem cells as a thera-peutic target.
Sommario/riassunto	This book entitled “Cancer Stem Cell Markers and Related Network Path-ways” is about cancer stem cell (CSC) markers and the molecular network pathways. CSCs play an important role in the cancer drug resistance, metastasis and recurrence. Epithelial-mesenchymal transition (EMT) is closely related to CSC phenotype. This book covers

various aspects of the molecular networks related to CSCs including the important phenotypic change such as EMT. Readers will discover the importance of the identification of CSC markers and EMT-related molecules in CSC network pathways. The CSC signaling pathways and EMT molecular network pathways attract researchers in the field to define the cancer therapeutic targets. Cancer environment is important in the acquisition of CSC phenotype in cells. The revealing of this CSC mystery is across 7 chapters. The topic of this book is particularly relevant to research in thefield of cancer and stem cells, as well as the network pathways. We hope that this book helps the readers to be interested in understanding why the CSC concept is important and attractive.