

1. Record Nr.	UNINA9910253897503321
Titolo	The Long and Short Non-coding RNAs in Cancer Biology // edited by Erwei Song
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2016
ISBN	981-10-1498-1
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VIII, 458 p. 21 illus.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 927
Disciplina	616.994042
Soggetti	Cancer research Cell biology Cancer Research Cell Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Non-coding RNAs: New Players in Cancers -- The Working Modules of Long Non-coding RNAs in Cancer Cells -- Methods to Study Long Non-coding RNA Biology in Cancer -- Relationship between Non-coding RNA Dysregulation and Epigenetic Mechanisms in Cancer -- Non-coding RNAs in Growth and Death of Cancer Cells -- Non-coding RNAs in Cancer Cell Plasticity -- Non-coding RNAs in Regulation of Cancer Metabolic Reprogramming -- Non-coding RNAs in Tumor Angiogenesis -- Non-coding RNAs in Cancer Immunity -- Non-coding RNAs in Therapeutic Resistance of Cancer -- Non-coding RNAs Regulating Cancer Signaling Network -- Non-coding RNAs Regulating NFkB Signaling -- Non-coding RNAs Regulating p53 and c-Myc Signaling -- Viral Non-coding RNAs in Cancer Biology -- Non-coding RNAs in Cancer Diagnosis -- Therapeutic Potentials of Non-coding RNAs: Targeted Delivery of NcRNAs in Cancer Cells.
Sommario/riassunto	The book conveys a comprehensive knowledge of long and short ncRNAs in cancer regulation and their potentials as diagnostic biomarkers and therapeutic targets. Topics covered include the molecular mechanisms of various classes of ncRNAs (with emphasis on long non-coding RNAs and microRNAs) in cancer, the functional roles of ncRNAs in regulating different cancer hallmarks (including

proliferation, apoptosis, stem-cell properties, epithelial-mesenchymal transition, metabolism, angiogenesis, tumor-host interactions and therapeutic resistance), the role of ncRNAs in regulating cancer signaling circuitry programs (highlighting their involvement in c-myc, p53 and NFkB signaling), a systemic summary of clinical and preclinical studies that evaluate the potential of ncRNA signatures for cancer diagnosis and prognosis and strategies to delivery short ncRNAs as therapeutic molecules for cancer treatment. This book may serve as a comprehensive resource for researchers, graduate students and oncologists in ncRNA and cancer research and help drug development by identifying ncRNA targets.
