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Nota di contenuto Preface -- miRNA biogenesis and function -- miRNAs in cancer

progression -- MicroRNA, DNA repair and cancer -- Role of microRNAs in stem cells regulation and tumorigenesis in Drosophila -- MicroRNAs in stem cells and cancer stem cells -- MicroRNAs in epithelial mesenchymal transition and breast cancer progression -- MicroRNAs in the development and progression of breast cancer -- The role of microRNAs in hematopoietic stem cells and leukemia development -- MiRNA and chronic lymphocytic leukemia -- The role of miRNAs in the development of normal pancreas and pancreatic cancer, and their roles in tumor progression -- Epigenetic regulation of microRNA genes in colorectal cancer -- MicroRNAs in the development and progression of kidney cancer -- MicroRNAs in the development and progression of

skin cancer -- MicroRNAs in the Development and Progression of Prostate Cancer -- MicroRNAs in development and progression of ovarian cancer -- MicroRNA and Cancer Drug Resistance -- Microvesicular Transfer of microRNA in Tumor Microenvironment -- MicroRNA cancer therapeutics and the challenge of drug delivery -- MicroRNA and Drug Delivery -- Index.

Sommario/riassunto

MicroRNAs (miRNAs) are small 22-nucleotides long non-coding RNAs that regulate the gene expression through translational repression and mRNA degradation in varieties of species. miRNAs play regulatory role in several fundamental biological processes from normal development to regulation of stem cells, cancer stem cells and various human diseases including cancer. miRNAs can be used as potential biomarkers for disease diagnosis and have been considered potential therapeutic strategies in cancer treatment. This is a timely and specialized book providing the current understanding of miRNAs and their potential application in cancer diagnosis, prognosis, and therapeutic strategies in cancer treatment. This book will be a valuable source of information for the scientists in the field of cancer research as well as undergraduate and graduate students who want to pursue their research careers in cancer biology.