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regulation : advanced concepts, bioinformatics and systems biology tools. [Ulf Schmitz; Olaf Wolkenhauer; Julio Vera;] -- This book reflects the current state of knowledge about the role of microRNAs in the formation and progression of solid tumours. MicroRNA cancer regulation : advanced concepts ... The Centenary Institute is a world-leading independent medical research institute with a particular focus on cancer, inflammation and cardiovascular disease. MicroRNA cancer regulation: Advanced concepts, bioinformatics and systems biology tools | Centenary Institute MicroRNA cancer regulation: Advanced concepts ... ISBN: 9789400755895 9400755899: OCLC Number:

809564642: Description: xii, 346 pages : illustrations (some color) ; 27 cm. Contents: MicroRNAs in human cancer --Bioinformatics, non-coding RNAs and its possible application in personalized medicine --MicroRNA target prediction and validation --MicroRNA-regulated networks: the Perfecdt Storm for classical molecular biology, the Ideal Scenario for ... MicroRNA cancer regulation : advanced concepts ... The main focus lies on computational methods and their applications in combination with cutting edge experimental techniques that are used to approach all aspects of microRNA regulation in cancer. The use of high-throughput quantitative techniques makes an integrative

experimental and computational approach necessary. MicroRNA Cancer Regulation | SpringerLink The heterochronic gene let-7 serves as a tumor suppressor microRNA by targeting various oncogenic pathways in cancer cells. Considerable evidence indicates that reduced expression of let-7 might be associated with poor clinical outcome in patients with cancer. Here, we report that the expression levels of three let-7 family members, let-7a , let-7b , and let-7g , were significantly decreased ... The Heterochronic microRNA let-7 Inhibits Cell Motility by ... Introduction. Breast cancer is the most common cancer among women worldwide. Distant metastases are the cause of about 90% of deaths in breast cancer

().The epithelial-to-mesenchymal transition (EMT) process, first described in embryogenesis, is characterized by changes in cell morphology, behavior, and plasticity ().The activation of EMT program depends on a diverse array of proteins ... PTBP3-Mediated Regulation of ZEB1 mRNA Stability Promotes ... Breast cancer (BCa) remains the most common cancer in women worldwide. It has been shown microRNAs play essential roles in tumorigenesis and progressi... The effect of microRNA-766 promotes proliferation ... Although p53 activity can impact cell cycle regulation, apoptosis, and DNA repair pathways, the EMT and invasion programs initiated by p53 loss of function or mutation are

completely dependent on Snail1 expression. These results identify a new link between p53, miR-34, and Snail1 in the regulation of cancer cell EMT programs. A p53/miRNA-34 axis regulates Snail1-dependent cancer cell ... Within the past few years, studies on microRNA (miRNA) and cancer have burst onto the scene. Profiling of the miRNome (global miRNA expression levels) has become prevalent, and abundant miRNome data are currently available for various cancers. The pattern of miRNA expression can be correlated with cancer type, stage, and other clinical variables, so miRNA profiling can be used as a tool for cancer diagnosis and prognosis. miRNA expression analyses also suggest oncogenic (or tumor-

suppressive MicroRNAs in Cancer - PubMed MicroRNA cancer regulation: Advanced concepts, bioinformatics and systems biology tools. Series: Advances in Experimental Medicine and Biology, Vol. 774, Springer 2013. ISBN: 978-94-007-5589-5. Dr Ulf Schmitz | Centenary Institute MicroRNA Cancer Regulation Advanced Concepts, Bioinformatics and Systems Biology Tools by Ulf Schmitz and Publisher Springer. Save up to 80% by choosing the eTextbook option for ISBN: 9789400755901, 9400755902. The print version of this textbook is ISBN: 9789400755895, 9400755899. MicroRNA Cancer Regulation | 9789400755895, 9789400755901 ... Lee "MicroRNA Cancer Regulation Advanced

Concepts, Bioinformatics and Systems Biology Tools" por disponible en Rakuten Kobo. This edited reflects the current state of knowledge about the role of microRNAs in the formation and progression of soli... MicroRNA Cancer Regulation eBook por - 9789400755901 ... The present study aimed at exploring available serum miRNA biomarkers for the detect... A three-miRNA panel in serum as a noninvasive biomarker for colorectal cancer detection - Xiqi Peng, Jingyao Wang, Chunduo Zhang, Kaihao Liu, Liwen Zhao, Xuan Chen, Guocheng Huang, Yongqing Lai, 2020 A three-miRNA panel in serum as a noninvasive biomarker ... A variety of studies have shown the ability of individual miRNAs to regulate oncogene and

tumor suppressor gene expression and others have shown that miRNA gene loss or mutation can contribute to tumorigenesis. miRNA expression patterns (or signatures) are now known to characterize the developmental origins of tumors more effectively than mRNA expression signatures and may provide a useful tool for the diagnosis and prognosis of human cancer. MicroRNA: Potential for Cancer Detection, Diagnosis, and ... A single miRNA may regulate various unrelated target genes and thereby control opposing activities such as cellular proliferation and apoptosis. The ultimate function of a miRNA may depend on the tissue type they are expressed in and what target genes are present. MicroRNAs with tumor suppressor

potential. MicroRNA—implications for cancer Microrna Cancer Regulation: Advanced Concepts, Bioinformatics and Systems Biology Tools. By Ulf Schmitz. Advances in Experimental Medicine and Biology, Volume 774: MicroRNA Cancer Regulation: Advanced Concepts, Bioinformatics and Systems Biology Tools. By Ulf Schmitz, Olaf Wolkenhauer, Julio Vera.

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