

عنوان مقاله:

Bioinformatics evaluation of targetom hsa-miR-525-5p signaling pathways and related function of BCR-ABL (ABL1) in patients with acute lymphoblastic leukemia

محل انتشار:

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خلاصه مقاله:

Acute lymphoblastic leukemia (ALL) is the most common cancer among children and the most frequent cause of death of cancer before 20 years of age. Leukemia can make many problems for families and societies and this is a good reason for recognizing biomarkers. Different genetics and environment risk factors can cause cancer. Therefore in order to find more bioinformatics information, We use NCBI, miRbase, miRWALK2.0, DAVID database and KEGG pathways. ABL1 is a proto oncogene that encodes a protein tyrosine kinase involved in a variety of cellular processes, including cell division, adhesion, differentiation, and responses to stress. . This gene has been found fused to a variety of translocation partner genes in various leukemia. According to bioinformatics studies, hsa-miR-525-5p is predicted to target the ABL1 gene in the evading apoptosis pathway leading to cancer. In the present project, according to bioinformatics predictions, the binding site of this microRNA is due to the oncogene role of ABL1 gene and negative regulatory function of microRNAs, the expression of hsa-miR-525-5p is expected to decrease and consequently to increase the expression of target gene and to cause cancer.

کلمات کلیدی:

acute lymphoblastic leukemia(ALL),BCR-ABL(ABL1), miRNA, hsa-miR-525-5p

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