عنوان مقاله:

association of single nucleotide polymorphism rs76121131[C> t] in CD44 related with hsa-miR-3929and Gastric cancer

محل انتشار:

اولین کنگره پزشکی شخصی (سال: 1395)

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خلاصه مقاله:

Nowadays, treatment can be done with genetic variation. SNPs are the most important biomarkers for personalized medicine.MicroRNAs (miRNAs) participate in diverse biological pathways and may act as oncomir or tumor suppressors, so they could be used as a prognostic biomarker. The aim of our study is to expand current knowledge about molecular function of hsa-miR-3929 and its relatede SNP in gastric cancer cells by using bioinformatics tools.Validated and predicted targets of hsa-miR-3929 were obtained from miRbase and miRwalk databases respectively. miRBase and DAVID databases were used for further analysis. miRNASNP database predicts single nucleotide polymorphism in 3'UTR of a gene (CD44) related to hsa- miR-3929.It is predicted that hsa-miR-3929acts as a critical tumor suppressor micro RNA by inhibiting some important genes in sustained angiogenesis pathway.Our data manifested KEGG signaling pathways pathway in cancer as the most statistical relevant pathways with hsa-miR3929 targetome.According to our data, hsa- miR-3929 and its related SNP may be involved in gastriccancer prognosis by altering regulation of angiogenesis and some vital signaling pathways mRNAs. To sum up, C allele in this location can have prognostic value for angiogenesis and metastasis phenotypes in patients with gastric carcinoma.

کلمات کلیدی:

gastric cancer, hsa-miR-3929, SNP,KEGG