

#### عنوان مقاله:

Bioinformatics evaluation of hsa-miR-FF95 related to a single nucleotide polymorphism (rs10m1m0ammo) of GSTP1 gene in gastric cancer

### محل انتشار:

اولین همایش بین المللی و دهمین همایش ملی بیوانفورماتیک ایران (سال: 1400)

تعداد صفحات اصل مقاله: 1

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#### خلاصه مقاله:

Introduction: Gastric cancer remains one of the most common and deadly cancers worldwide. Helicobacterpylori infection is the major risk factor associated with the development of gastric cancer (GC). The transitionfrom normal mucosa to non-atrophic gastritis, triggered primarily by H. pylori infection, initiatesprecancerous lesions which may then progress to atrophic gastritis and intestinal metaplasia. GSTP1 gene islocated position on choromosome11q1٣.٢. Different studies indicated that this gene is associated with gastriccancer. Based on accomplished studies, expression of this gene may be a prognostic indicator for several typeof cancer. Single nucleotide polymorphisms (SNPs) are consisting genetic marker related to many of thegenetic disease. microRNAs are counted as bio- markers with regulation and control of genes expression atlevel of mRNA. Given the importance of SNPs and microRNAs as cancer biomarkers that influence theexpression of genes, this study aimed to investigate association between hsa-miR-FF99 and a singlenucleotide (rs١٠٣١٠٥٥٣٣٠) of GSTP1 gene in patients suffering from gastric cancer. Methods: In the present study, databases such as NCBI, miRNASNP-Vm, miRWalk, PhenomiR, miRBaseand David were used for in silico data analyses.Results: Our bioinformatics analysis indicated that rs10m10camed is associated with the conversion of C toT allele in GSTP) gene, which may affect the performance and binding of miRNAs in this region. In this regard, results of this study also revealed that hsa-miR-FF95 can bind to the W'-UTR transcript of the GSTP\gene.Conclusion: Altogether, this study identifies rsነ ምነም and hsa-miR- FFዓ as important biomarkers that are associated with GSTP gene and gastric cancer. Also, it suggests that the formation of the T allele inrs10m06mm affects the binding of hsa-miR-FF99 to .the GSTP1 gene

# کلمات کلیدی:

Single nucleotide polymorphism, rs\ownwoarwo, GSTP\ gene, hsa-miR-FF95, Gastric cancer

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