

## عنوان مقاله:

GATAr Gene Polymorphisms Associated with Allergic Rhinitis in an Iranian Population

محل انتشار:

مجله گزارش های بیوشیمی و زیست شناسی مولکولی, دوره 5, شماره 2 (سال: 1396)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

Background: The development of allergic rhinitis (AR) is caused by the interaction between genetic predisposition and environmental factors. In this study, the association between GATA<sup>m</sup> single nucleotide polymorphisms and AR in an Iranian population was identified. Methods: This case-control study was performed on  $\lambda$ *F* patients with AR and  $\lambda$ *F* healthy subjects. This study aimed to evaluate a potential association between two GATA<sup>m</sup> SNPs, rs1<sup>r</sup>*F*<sup>A</sup>*F*</sub> and rs<sup>r</sup>*Y*<sup>T</sup><sup>T</sup><sup>F</sup>, and AR. Blood samples were collected and DNA was extracted for the evaluation of these SNPs by RFLP-PCR. Results: A statistically-significant association was found between rs1<sup>r</sup>*F*<sup>A</sup>*F*</sub> and AR (P<•.••1). The frequencies of the A and GA genotypes were less in patients than in controls. The frequencies of the G allele and the GG genotype were greater in patients than in controls (P < •.••1). Conclusions: SNP rs1<sup>r</sup>*F*<sup>A</sup>*F*</sub> of GATA<sup>m</sup> was associated with AR and sensitivity to aeroallergens in our population. Because of the significance of this gene in AR, studying the .association between GATA<sup>m</sup> polymorphisms and AR is recommended for other populations

## کلمات کلیدی:

Allergic rhinitis, GATAr, Genetic, SNP

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