

## عنوان مقاله:

Investigation of fimH Single Nucleotide Polymorphisms (C۶۴°T and T۵۹۱A) in Uropathogenic E. coli Isolated from Patients with Urinary Tract Infections

## محل انتشار:

مجله تحقیق در پزشکی مولکولی, دوره 4, شماره 2 (سال: 1395)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

Background: Urinary tract infections are one of the most frequent health problems and Uropathogenic Escherichia coli is the major pathogen resulting UTIs. The severity of UTIs is caused by the expression of a large range of virulence factors. In this study, we evaluated the allelic frequency fimH gene, in UPECs isolated from patients with UTIs. This study also aimed to determine the roles of C۶۴oT and T۵91A SNPs of the fimH gene in the ability of UPEC to cause UTIs. Material and Methods: A total of 1Fo UPEC strains isolated from patients with UTIs were screened by PCR-RFLP for determining the prevalence of the C۶۴oT and T۵91A SNPs of fimH gene in UPEC strains isolated from patients referred to educational hospitals of Shahrekord. The genotyping of C۶۴οT and T۵۹ιA SNPs was performed using Bme\mathbb{Mq.I and BseNI restriction enzymes, respectively through PCR-RFLP method. Results: There were no meaningful association between Cff-T and TaniA SNPs of fimH gene and the ability of UPEC fimH variants to cause UTIs in the studied E. coli isolates. Conclusion: FimH is one of the most major virulence factors among UPECs which is confirmed in most E. coli isolates. Further studies are required to determine the association between different fimH .gene SNPs of isolated UPECs from UTIs patients and the ability of UPEC fimH variants to cause UTIs

کلمات کلیدی:

UTIs, fimH, CFFoT and TaniA SNPs, PCR-RFLP

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