عنوان مقاله:

Association analysis of IL-12, IL-13 and TNF-α polymorphisms with susceptibility to brucellosis

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

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خلاصه مقاله:

Introduction & Objectives: The cytokine gene polymorphism is important for the genetic predisposition of infectious disease. The present study was aimed at identification the associations between IL-12 (+1188 A/C), IL-13 (-1512 A/C), IL-13 (-1112C/T) and TNF-α)-238 G/A) genotyping in Brucellosis patients. Materials & Methods: This case-control study was conducted on 107 Brucellosis patients and 107 healthy controls. The SNPs of TNF-α)-238 G/A) and IL-12 (+1188 A/C) were done by amplification refractory mutation system-polymerase chain reaction (ARMS-PCR) and IL-13 genotyping at positions -1512 (A/C) and -1112 (C/T) were analysis by restriction fragment length polymorphism-polymerase chain reaction (RFLP-PCR) methods. Result: IL-13 (-1512A/C) was associated with Brucellosis risk in dominant model (OR (95% CI) =2.17 (1.02–4.62)), P-value=0.041. However, there was no difference in allele and genotype frequencies of TNF-α)-238 G/A), IL-12 (+1188 A/C) and IL-13 (-1112 C/T) between patients and controls. Conclusion: In conclusion the gene variation may be useful for identification of genotype as biomarkers for identification of people at high risk.

کلمات کلیدی:

Cytokines; Polymorphisms; Brucellosis; Iran

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