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Investigation of the association of FOLH1 rs61886494 and DISC1 rs12133766 loci in Iranian schizophrenia patients

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Abstract

The aim of this study was to identification of polymorphisms of FOLH1 and DISC1 genes in Iranian patients with schizophrenia. In this case-control study, 50 patients with schizophrenia and 50 healthy controls were evaluated. PCR-RFLP and Tetra-ARMS method used for detection of FOLH1 and DISC1 gene respectively in both of patients and control groups. The frequency of CC, CT, and TT genotypes for FOLH1 gene in rs61886494 locus in schizophrenic patients was 92%, 8%, and 0%, respectively, and in healthy subjects, 94%, 0%, and 6%, respectively. The frequency of DISC gene in GG genotype was higher than that of normal people and frequency of GA genotype was lower than normal subjects. In addition, the genotype AA was identified only in patients. For FOLH1 gene in rs61886494 locus, the frequency of CC and TT genotypes in patients was 2% and 6% lower in healthy people, while CT genotype in patients was 8% higher in health people. Interestingly, TT genotype was not observed in patients and CT genotype in healthy people was not observed. Regarding the DISC1 gene, the results showed that the frequency of homozygous GG and GA homozygote genotypes in the patients was higher in the rs12133766 locus, while the heterozygote GA was high in healthy subjects and was not observed in patients. Therefore, the result of this study in our country can provide suitable method for diagnosis and prevention of schizophrenia patients.

Biography

Parisa Azizi completed her bachelor at the age of 23 years from Islamic Azad University Central Tehran Branch and now she was studying Master of Science biochemistry at Tarbiat Modares University. She had Published 2 articles reputed journals.

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