

Study of ZNF804A and DISC1 Genes in Iranian Patients with Schizophrenia

Parisa Azizi

Department of Biochemistry, Faculty of Biological Sciences, Tarbiat Modares University, Tehran, Iran

Abstract

The goal of this study was to see if there was a link between ZNF804A polymorphism and DISC1 gene polymorphism in schizophrenia patients in Iran.

A total of 50 patients with schizophrenia and 50 healthy controls were investigated in this case-control research. Single nucleotide polymorphisms were assessed using the PCR-RFLP technique in both patient and control groups.

In rs1344706, the frequency of TT, GT, and GG genotypes for the ZNF804A gene was 26 percent, 52 percent, and 22 percent, respectively, and 46 percent, 42 percent, and 8 percent in healthy participants. In the DISC1 gene, the frequency of TT, CT, and CC genotypes in the rs6675281 area was 2%, 14%, and 84 percent in healthy people and controls, respectively, and 2%, 14%, and 80% in healthy subjects and controls, respectively.

For the ZNF804A gene in the rs1344706 area, the prevalence of homozygous GG and heterozygote GT genotypes was 8 percent and 14 percent higher in healthy patients, respectively, whereas the frequency of homozygous TT was 22 percent greater in healthy subjects than in those with schizophrenia. The prevalence of TT, CT, and CC genotypes in the rs6675281 area of the DISC1 gene, on the other hand, was fairly comparable in healthy people, with no significant difference between homozygous and heterozygous genotypes. As a consequence, the findings of our study may be used to provide appropriate information about the condition in order to better prepare patients and their families, as well as to provide tailored therapy to avoid catastrophic damage.

Biography

l have completed my bachelor at the age of 23 years from Islamic Azad University Central Tehran Branch and now I'm studying Master of Science biochemistry at Tarbiat Modares University. I had published 2 articles reputed journals.

Presenting author details

Full name: Parisa Azizi

Contact number:+989035719045

Linked In account: https://www.linkedin.com/in/parisa-azizi-b56781172/

Category: (Oral presentation)