

عنوان مقاله:

Identification of Genetic Polymorphism Interactions in Sporadic Alzheimer's Disease Using Logic Regression

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خلاصه مقاله:

Objectives: Genetic polymorphism interactions are among the important factors in affliction with complex diseases like Alzheimer's disease. The important goal of genetic association studies is to identify a combination of polymorphisms and measure their importance in increasing the risk of occurrence of such diseases. In this study, feature selection approach of logic regression was used to identify the interactions among genetic polymorphisms influential in patients affected with Alzheimer's disease. Methods: ۱۰۱ Alzheimer's cases and ۱۰۹ control subjects from Iranian population were recruited in a case-control study. The evaluation of genes in two groups was performed using molecular technique methods in particular, the PCR-RFLP technique was used to evaluate the intended polymorphisms in APOE, ABCA1, CALHM, CCR2, GSK3β, SAITOHIN, TAU, TNF-α and VDR genes, and then the feature selection approach was used to detect the significance polymorphisms and interactions between them. Results: Based on feature selection approach, the two-way interaction between the polymorphisms of SAITOHIN and APOE genes were significant on occurrence of Alzheimer's disease. Discussion: Logic regression approach is recommended to detect interaction in the genetic association studies

کلمات کلیدی:

Logic regression, Feature selection, Interactions, Genetic polymorphisms, Alzheimer's disease

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