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Significant association between TNFRSF11B variant and ischemic stroke in a Chinese Han population

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The serum level of osteoprotegerin (encoded by OPG or TNFRSF11B) was previously shown to be increased in patients with ischemic stroke. A single nucleotide polymorphism (SNP) rs3134069 in the TNFRSF11B gene on chromosome 8q23 was previously associated with ischemic stroke in a small population of diabetic patients in Italy. It remains to be determined whether SNP rs3134069 is associated with ischemic stroke in the general population. Thus previous study used a case-control association design to test the hypothesis that SNP rs3134069 is associated with ischemic stroke in two independent Chinese Han GeneID cohorts, including a Central cohort with 1,629 cases and 1,504 controls and a Northern cohort with 1,206 cases and 720 controls it showed significant association with ischemic stroke in the Central GeneID cohort. In this study additional replication has been done in the independent Northern GeneID cohort ($P_{adj}=2.45 \times 10^{-4}$, $OR=1.53$). The association became more significant in the combined population ($P_{adj}=7.09 \times 10^{-6}$, $OR=1.41$). The significant associated with under an additive or dominant model. The minor allele C of SNP rs3134069 was significantly associated with an increased expression level of TNFRSF11B. This study demonstrates that SNP rs3134069 in TNFRSF11B increases risk of ischemic stroke by increasing TNFRSF11B expression.

Biography

Duraïd Al-Midfai considering the cardiovascular major for various reasons. Since I he was a child, he has been fascinated by the world around himself. When he traveled to China and Middle East, the conservation efforts of these two countries interested him and he knew that he wanted to do something related to the CAD disease in Genetics filed. He is currently a member of Fuwai Central China Cardiovascular Hospital As a post doctoral research in the cardio surgery department-in patient building as well as his work also collaborated with Henan Hospital in the Research Center building, which is a Big and famous hospital in central of china for cardiovascular disease treatment.

A long-term goal of him, his goals is to one day manage and discover a novel genes associated with various diseases in human genome. Moreover, he is also curious to learn more about any medical field that is somehow related to genetics research.

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