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Family-based association study of *ZNF533*, *DOCK4* and *IMMP2L* gene polymorphisms linked to autism in a northeastern Chinese Han population

ZNF533、*DOCK4*和*IMMP2L*基因多态性与中国东北汉族孤独症的关联研究

Key words: Autism, *ZNF533*, *DOCK4*, *IMMP2L*, Northeastern Chinese Han population, Single-nucleotide polymorphism

关键词：孤独症；*ZNF533*；*DOCK4*；*IMMP2L*；中国东北汉族；单核苷酸多态性

* The prevalence of autism has increased to one per 50 children aged under 8 years

* A study in a Caucasian population has identified two single-nucleotide polymorphisms (SNPs) in *ZNF533*, one in *DOCK4*, and two in *IMMP2L*, which were all significantly associated with autism.

* They are located in *AUTS1* and *AUTS5*, which have been identified as autism susceptibility loci in several genome-wide screens.

* Autism is clinically and genetically heterogeneous.

* Meaningful study needs to replicate it in other population especially in Chinese Han

* The present study aimed to investigate whether the *ZNF533*, *DOCK4*, and *IMMP2L* genes are also associated with autism in a northeastern Chinese Han population.

* Significant associations were found between autism and the SNPs of *ZNF533* and *DOCK4*