



Association of the rs3743205 variant of DYX1C1 with dyslexia in Chinese children.

Dyslexia is a learning disability that is characterized by difficulties in the acquisition of reading and spelling skills independent of intelligence, motivation or schooling. Studies of western populations have suggested that DYX1C1 is a candidate gene for dyslexia.

In view of the different languages used in Caucasian and Chinese populations, it is therefore worthwhile to investigate whether there is an association of DYX1C1 in Chinese children with dyslexia. Method and

Results: Eight single nucleotide polymorphisms (SNPs) were genotyped from three hundred and ninety three individuals from 131 Chinese families with two which have been reported in the literature and six tag SNPs at DYX1C1. Analysis for allelic and haplotypic associations was performed with the UNPHASED program and multiple testing was corrected using false discovery rates.

We replicated the previously reported association of rs3743205 in Chinese children with dyslexia (p corrected =0.0072). This SNP was also associated with rapid naming, phonological memory and orthographic skills in quantitative trait analysis.

Conclusion: Our findings suggest that DYX1C1 is associated with dyslexia in people of Chinese ethnicity in Hong Kong.

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