

研究报告

## 混合家系中NOTCH4基因多态与精神分裂症、心境障碍关联研究

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**摘要** 文章旨在探讨NOTCH4基因多态性与精神分裂症(SP)、心境障碍(MD)的关系, 搜寻中国汉族人群SP与MD的共同易患基因。在中国汉族人群中收集61个SP与MD的混合家系, 应用PCR-RFLP方法对NOTCH4基因多态性-1725T/G、-25T/C分型, 进行传递不平衡检验(TDT)和基于单体型单体型相对风险分析(HHRR)。结果显示-1725T/G与SP或MD无明显关联( $P>0.05$ ); -25T/C与SP无明显关联( $P>0.05$ ), 与女性或发病年龄 $\leq 25$ 岁的MD相关联( $P<0.05$ ); 单体型-1725G/-25T与SP相关联( $P<0.05$ ), 与MD无明显关联( $P>0.05$ )。本研究结果提示, 在我们研究的家系中NOTCH4或邻近基因可能是精神分裂症与心境障碍的共同易患基因之一。

**关键词** [精神分裂症](#); [心境障碍](#); [混合家系](#); [NOTCH4基因](#); [多态性](#)

分类号

## Association Study of NOTCH4 Gene Polymorphisms with Schizophrenia and Mood Disorders in Mixed Pedigrees

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### Abstract

This study was to explore the relationships between NOTCH4 gene and schizophrenia (SP) and mood disorders (MD), and to search for a common susceptible gene for SP and MD in Chinese Han population. We collected 61 mixed pedigrees of SP and MD in Chinese Han population. NOTCH4 polymorphisms -1725T/G and -25T/C were genotyped by applying PCR-RFLP technique, then transmission disequilibrium test (TDT) and haplotype-based haplotype relative risk analysis (HHRR) were performed. The results showed that -1725T/G was not associated with SP or MD ( $P>0.05$ ), -25T/C was not associated with SP ( $P>0.05$ ), but associated significantly with MD for female or early-onset (age of onset  $\leq 25$  years) group ( $P<0.05$ ), and -1725G/-25T haplotype was significantly associated with SP ( $P<0.05$ ), but not associated with MD ( $P>0.05$ ). Our results suggested NOTCH4 or neighboring gene might be a common susceptible gene for SP and MD in the pedigrees studied.

**Key words** [schizophrenia](#) [mood disorders](#) [mixed pedigree](#) [NOTCH4 gene](#) [polymorphism](#)

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