

论著

## 6号染色体复杂重排的子宫肌瘤HMGI-Y基因的表达

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**摘要** 背景与目的: 通过对有6号染色体复杂重排的子宫肌瘤标本, 在细胞遗传学和分子遗传学水平检测HMGI-Y(High Mobility Group,HMG家族的成员之一)基因的表达, 探索该基因在子宫肌瘤病因学中的作用机制。材料与方法: ①利用细胞遗传学分析方法, 对50例子宫肌瘤标本制备染色体并进行分析, 分成3个实验组: 6号染色体畸变组、非6号染色体畸变组、染色体正常组, 计算各组所占比例; ②通过RT-PCR一步法, 对各组标本进行HMGI-Y基因表达的mRNA水平检测; ③借助免疫组织化学分析法对各组进行HMGI-Y基因表达的蛋白水平检测。结果: ①6号染色体畸变组4例, 占8.0%(2.0%~19.0%); 非6号染色体畸变组8例, 占16.0%(7.0%~29.0%); 染色体正常组38例, 占76.0%; ②RT-PCR一步法检测结果显示, 6号染色体畸变组HMGI-Y基因在mRNA水平表达高于非6号染色体畸变组和染色体正常组; ③免疫组织化学检测结果显示HMGI-Y基因蛋白表达率, 6号染色体畸变组高于非6号染色体畸变组与染色体正常组,后两组之间比较差别无显著性。结论: 研究结果提示6号染色体的畸变可以引起子宫肌瘤的发生, 并通过调控对HMGI-Y基因的表达起作用。

**关键词** [子宫肌瘤](#); [染色体畸变](#); [HMGI-Y基因](#); [RT-PCR](#)

## The HMGI-Y Gene Expression of Uterus Myom With the Chromosome 6 Complex Rearrangement

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**Abstract** **BACKGROUND & AIM:** To explore the acting mechanism of HMGI-Y gene (high mobility group,a member of HMG family) in uterus myoma etiology through detecting its expression in cytogenetics and molecular genetics with uterus myoma specimen containing the sixth chromosome complex rearrangement. **MATERIAL AND METHODS:** ①Preparing chromosome specimen of 50 cases uterus myoma and they were detected by cytogenetics analyzing method. They were divided into three experimental groups:the chromosome 6 aberration group, none aberration of the chromosome 6 group, normal chromosome group, calculating the proportion of each group;②mRNA expression of HMGI-Y gene in every group were detected by RT-PCR one step method;3.Protein expression of HMGI-Y gene in every group were detected by immunohistochemistry analysis. **RESULTS:** ①4 cases in chromosome aberration group, accounting for 8.0%(2.0%~19.0%);8 cases in none aberration group, accounting for 16.0%(7.0%~29.0%);39 cases in normal group,accounting for 76.0%.②RT-PCR one step method indicated that mRNA expression of HMGI-Y gene in the sixth chromosome aberration group is higher than that of two other groups markedly; ③immunohistochemistry analysis indicated that protein expression of HMGI-Y gene in the first group is higher than that of the latter groups evidently( $P<0.01$ ),there is no difference between them ( $P>0.05$ ). **CONCLUSION:** This study illuminated that there was intimate relationship between aberration of the chromosome 6 and uterus myoma, it acted through regulating HMGI-Y gene expression.

**Keywords** [uterus myoma](#) [chromosome aberration](#) [HMGI-Y gene](#) [RT-PCR](#)

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