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基础研究

脂氧酶12 编码区遗传变异与胃癌发病的关系

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摘要：

目的：探讨位于脂氧酶12（LOX12）基因编码区Arg261Gln单核苷酸多态与胃癌发病风险的关系。方法：用聚合酶链反应-限制性片段长度多态性分析（PCR-RFLP）方法检测148例胃癌患者和148例无肿瘤正常对照人群的LOX12的基因型，并以Logistic回归模型计算各基因型与胃癌发病风险的关系。结果：LOX12 Arg261Gln等位基因频率在胃癌组中（0.544）高于正常组（0.443）。与Arg/Arg基因型携带者相比，Gln/Gln基因型携带者发生胃癌的风险增加（OR=2.26，95%CI=1.15~4.46，P=0.018），而杂合基因型Arg/Gln不增加胃癌发病风险（OR=1.37，95%CI=0.77~2.44，P=0.284）。结论：LOX12编码区Arg261Gln遗传变异可能是胃癌发病的重要遗传易感因素。

关键词： 胃肿瘤/遗传学；多态性 单核苷酸；花生四烯酸盐12-脂氧合酶

Relationship between genetic variation in encoding region of 12-lipoxygenase gene and risk of stomach cancer

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Abstract:

Objective: To investigate the association of Arg261Gln polymorphism in the coding region of 12-lipoxygenase (LOX12) gene with the risk of developing stomach cancer. Methods: The LOX12 genotypes in 148 patients with gastric cancer and 148 cancer-free controls were determined by using PCR-restriction fragment length polymorphism (PCR-RFLP). The association between the genotypes and risk of developing gastric cancer was estimated by logistic regression model. Results: The allele frequency for LOX12 Arg261Gln in gastric cancer patients (0.544) was higher than that of the normal controls (0.443). Compared with the Arg/Arg genotype carriers, the risk of developing gastric cancer was increased in Gln/Gln genotype carriers (OR=2.26, 95%CI=1.15－4.46, P=0.018), while those with the heterozygous genotype Arg/Gln showed no increased risk of developing gastric cancer (OR=1.37, 95% CI=0.77－2.44, P=0.284). Conclusion: The inherited polymorphisms of Arg261Gln in LOX12 gene encoding region may confer genetic susceptibility to development of stomach cancer.

Keywords: Stomach Neoplasms/genet Polymorphism, Single Nucleotide Arachidonate 12-Lipoxygenase

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