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Molecular Pathology

A variant in microRNA-196a2 is associated with susceptibility to hepatocellular carcinoma in Chinese patients with cirrhosis

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2 patients miR-196a2 polymorphism was genotyped by polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP). In addition, tumour tissues of liver (n = 59) were obtained from the studied HCC patients for measurement of miR-196a expression levels.

Results: The frequency of the CC genotype among HCC patients was higher than that in the control group, implying that the cirrhotic patients with the CC genotype or C allele containing genotypes (CT and CC) may have a higher risk of HCC. However, in a subsequent analysis of the association between this polymorphism and clinicopathological characteristics, there was an association between rs11614913 genotype and tumour size (p = 0.046), but not with tumour number, grade, stage, invasiveness or Child-Pugh grade. In a genotype-phenotype correlation analysis using 59 tumour tissues of liver, rs11614913 CC or carrying at least one C allele was associated with significantly increased mature miR-196a expression (p = 0.006 or = 0.002).

Conclusions: Our results suggest, for the first time, that miR-196a2 polymorphism may contribute to cirrhosis-related HCC susceptibility in Chinese patients through influencing mature miR-196a expression.

Key words:



Frequent deletions and down-regulation of micro- RNA genes miR15 and miR16 at

13q14 in chronic lymphocytic leukemia

Source: Proceedings of the National Academy of Sciences

Retroviral Insertional Mutagenesis Identifies Genes that Collaborate with NUP98-

HOXD13 during Leukemic Transformation

Source: Cancer Research

Hepatocellular Carcinoma: The Need for Progress

Source: Journal of Clinical Oncology

Common genetic variants in pre-microRNAs were associated with increased risk of

breast cancer in Chinese women

Source: Human Mutation

A microRNA component of the p53 tumour suppressor network

Source: Nature

Retroviral activation of the mir-106a microRNA cistron in T lymphoma

Source: Retrovirology

Comprehensive analysis of microRNA expression patterns in hepatocellular carcinoma

and non-tumorous tissues

Source: Oncogene

ConcomitantMYCand microRNA cluster miR-17-92 (C13orf25) amplification in human

mantle cell lymphoma

Source: Leukemia & Lymphoma Global Cancer Statistics, 2002



A functional polymorphism in the miR-146a gene and age of familial breast/ovarian cancer diagnosis Source: Carcinogenesis Human polymorphism at microRNAs and microRNA target sites Source: Proceedings of the National Academy of Sciences microRNA miR-196a-2 and Breast Cancer: A Genetic and Epigenetic Association Study and Functional Analysis Source: Cancer Research Association of MicroRNA Expression in Hepatocellular Carcinomas with Hepatitis Infection, Cirrhosis, and Patient Survival Source: Clinical Cancer Research A Functional Genetic Variant in microRNA-196a2 Is Associated with Increased Susceptibility of Lung Cancer in Chinese Source: Cancer Epidemiology Biomarkers & Prevention Cyclin G1 Is a Target of miR-122a, a MicroRNA Frequently Down-regulated in Human Hepatocellular Carcinoma Source: Cancer Research Genetic variants of miRNA sequences and non-small cell lung cancer survival Source: The Journal of Clinical Investigation Single Nucleotide Polymorphisms of microRNA Machinery Genes Modify the Risk of Renal Cell Carcinoma Source: Clinical Cancer Research Profili 124 Up-X regul Sourc Comr es to papil Sourc The c Source Micro carcii Sourc **IARC** Evalu Supp 987.

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