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22 Feb 2016 ... The autophagy response plays an important role in the progression of liver disease due ... The ATG12-ATG5 complex associates with ATG16 to form ... Hepatocellular apoptosis acts as a tumor suppressor or (prodeath) in the liver. .... to spontaneous malignancies and accelerates HBV-related HCC.38 Mice ...

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8 May 2016 ... ATG5 autophagy related 5 homolog, apoptosis-specific protein ... Analysis of hepatitis B virus capsid maturation steps revealed that Rab33B ... Genetic variation in ATG5 is associated with increased susceptibility for thyroid carcinoma ... study to identify role of conjugation between ATG12 and ATG5 in LC3 ...

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Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 27279

Manuscript Type: ORIGINAL ARTICLE

*Basic Study*

Increased ATG5-ATG12 in hepatitis B virus-associated hepatocellular carcinoma and their role in apoptosis

Areerat Kunanopparat, Ingorn Kimkong, Tanapat Palaga, Pisit Tangkijvanich, Boonchoo Sirichindakul, Nattiya Hirankarn

#### Abstract

AIM: To investigate autophagy-related genes, particularly ATG12, in apoptosis and cell cycle in hepatitis B virus (HBV)-associated hepatocellular carcinoma (HCC) and non-HBV-HCC cell lines.

#### Match Overview

1	<b>CrossCheck</b> 40 words Autophagy and Cancer, 2013.	1%
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2014年8月14日 - Keywords: Hepatitis B virus, Hepatocellular carcinoma, Transcription .... Increase in the concentration of anti-apoptotic protein survivin is another .... A novel HBx associated mutation at amino acids L30F/S144A was recorded ...

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作者 : HZ Xu - 2014 - 相关文章

2014年7月18日 - Key Words: Chronic hepatitis B, Hepatitis B virus, Hepatocellular carcinoma, Pathogenic ... Chronic inflammation plays a vital role in the development of HCC. Repeated cycles of inflammation-induced apoptosis and hepatocyte regeneration increase ... HBV has a relatively high mutation rate in its genome.

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## Molecular mechanism of hepatitis B virus-induced hepatocarcinogenesis

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The hepatitis B virus X protein (HBx) has been implicated in the development of hepatocellular carcinoma (HCC) associated with chronic infection. ... that HBx reduces cell death through inhibition