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Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Investigation of immune escape-associated mutations of hepatitis B virus in patients harboring hepatitis B virus drug-resistance mutations

Huang BX *et al.* Immune escape-associated mutations of HBV

Bi-Xia Huang, Yan Liu, Zhen-Ping Fan, Lan-Lan Si, Rong-Juan Chen, Jun Wang, Dan Luo, Fu-Sheng Wang, Dong-Ping Xu, Xin-Guang Liu

Abstract

BACKGROUND

It is unclear whether immune escape-associated mutations in the major hydrophilic

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Hepatitis B virus (HBV) reactivation occurs as a major complication of **immunosuppressive therapy** among persons who have recovered from **acute hepatitis** and those who have controlled **chronic infection**. Recent literature data emphasize the presence of a high degree of S gene variability in **HBV** isolates from patients who developed reactivation.

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Jan 07, 2016 · **Hepatitis B virus (HBV) mutations** have been found both in acute and chronic **patients** and in all the four **HBV** open reading frames (ORFs - preS/S, polymerase, preCore/core, and X). The preS/S ORF codes for three different surface ...

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Hepatitis B virus (HBV) reactivation occurs as a major complication of **immunosuppressive**

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1.1. Natural History of HBV Infection and HBV Reactivation. It is estimated that more than two billion people around the world have been infected by **hepatitis B virus** (HBV) [1]. HBV infection remains a heavy health burden worldwide since chronic infection affects an estimated 248 million people and represents a significant risk for developing adverse outcomes, including cirrhosis, hepatic ...

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Hepatitis B virus (HBV) reactivation occurs as a major complication of immunosuppressive therapy among persons who have recovered from acute **hepatitis** and those who have controlled chronic infection. Recent literature data emphasize the presence of a high degree of S gene variability in HBV isolates from **patients** who developed reactivation. In reactivated HBV, the most frequently detected ...

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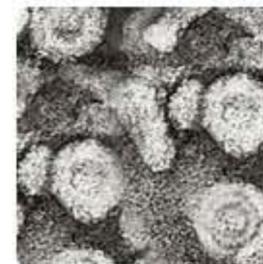
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1. Introduction. **Hepatitis B virus** (HBV) infection is a worldwide health problem. HBsAg-positive **patients** with high levels of serum HBV DNA and alanine aminotransferase (ALT) are targets of anti-viral therapies because they are at high risk of liver cirrhosis and hepatocellular carcinoma (HCC) [1]. It is estimated that

Hepatitis B virus

Dna Viru



Hepatitis B virus, is a partially double-stranded DNA virus, a species of the genus Orthohepadnavirus and a member of the Hepadnaviridae family of viruses. This virus causes the disease hepatitis B.

Wikipedia

Scientific name: Hepatitis B virus

Genus: Orthohepadnavirus

Family: Hepadnaviridae

Biological rank: Species

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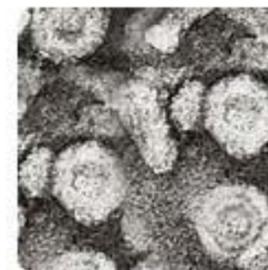
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Hepatitis B virus

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Hepatitis B virus, is a partially double-stranded DNA virus, a species of the genus Orthohepadnavirus and a member of the Hepadnaviridae family of viruses. This virus causes the disease hepatitis B.

Wikipedia

Scientific name: Hepatitis B virus

Genus: Orthohepadnavirus

Family: Hepadnaviridae

Biological rank: Species

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