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Name of Journal: *World Journal of Gastrointestinal Oncology***Manuscript NO:** 64660**Manuscript Type:** REVIEW

Application of the woodchuck animal model for the treatment of hepatitis B virus-induced liver cancer

Suresh M *et al.* The woodchuck model of HBV-induced HCC

Manasa Suresh, Stephan Menne

Abstract

This review describes woodchucks chronically infected with the woodchuck hepatitis virus (WHV) as an animal model for hepatocarcinogenesis and treatment of primary liver cancer or hepatocellular carcinoma (HCC) induced by the hepatitis B virus (HBV). Since laboratory animal models susceptible to HBV infection are limited, woodchucks experimentally infected with WHV, a hepatitis virus closely related to HBV, are increasingly used to enhance our understanding of virus-host interactions, immune

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Jan 07, 2007 · This review describes the **woodchuck** and the **woodchuck hepatitis virus** (WHV) as an **animal model** for pathogenesis and therapy of chronic **hepatitis B virus** (HBV) infection and disease in humans. The establishment of **woodchuck** breeding colonies, and use of ...

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Nov 01, 2007 · The woodchuck as a model of chronic hepatitis B infection has provided valuable insight beyond the evaluation of antiviral medications and vaccinations. Serial ultrasound examinations have been proven effective in the recognition of early **hepatic tumor** ...

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Mar 20, 2012 · The Eastern **woodchuck** (*Marmota monax*) is naturally infected with **woodchuck hepatitis virus** (WHV), a hepadnavirus closely related to the human **hepatitis B virus** (HBV). The **woodchuck** is used as an **animal model** for studying chronic **hepatitis B** (CHB) and HBV-associated hepatocellular carcinoma (HCC) in humans, but the lack of sequence information ...

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Woodchuck Hepatitis Virus - an overview | ScienceDirect ...

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Woodchuck Hepatitis Virus. The **woodchuck** infected with WHV has been shown to be an excellent **animal model** for the study of HBV infection of humans (Tennant and Gerin, 1994). WHV and HBV are both known as hepadnaviruses (Tennant and Gerin, 1994). Infection in both species can lead to chronic **hepatitis** and HCC.

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Jan 07, 2007 · **Treatment of chronic woodchuck hepatitis virus infection** in the **Eastern woodchuck** (*Marmota monax*) with nucleoside analogues is predictive of **therapy for chronic hepatitis B virus infection** in humans. Hepatology.

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The Eastern **woodchuck** (*Marmota monax*) is naturally infected with **woodchuck hepatitis virus** (WHV), a hepadnavirus closely related to the human **hepatitis B virus** (HBV). The **woodchuck** is used as an **animal model** for studying chronic **hepatitis B** (CHB) and HBV-associated hepatocellular carcinoma (HCC) in humans, but the lack of sequence information has hitherto precluded functional genomics analysis.

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However, these **animals** often lack an intact immunological background, and the tumors in these **animals** do not develop spontaneously. We introduce a preclinical woodchuck hepatitis virus-induced liver cancer model as a platform for nanoparticle (NP)-based in vivo experiments. Liver cancer development in these **out-bred animals** occurs as a result of persistent viral infection, mimicking human hepatitis B virus ...

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Author: Lewis Y. Liu, Lewis Y. Liu, Xue-Zhong Ma, B...

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In conclusion, the woodchuck does provide an **animal model** with naturally occurring HCC that can be used to evaluate the efficacy of percutaneous ablation with MRI and pathologic evaluation of efficacy of treatment. We have developed a protocol that enables us to create consistently a predictable, **controlled RFA-induced burn in primary HCC**.

Cited by: 10

Author: Charles T. Burke, John M. Cullen, Andrei St...

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