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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 63470

Manuscript Type: REVIEW

Silencing HBV cccDNA - the potential of an epigenetic therapy approach

Epigenetic therapy for HBV

Abstract

Global prophylactic vaccination programmes have helped to curb new hepatitis B virus (HBV) infections. However it is estimated that nearly 300 million people are chronically infected (CHB) and have a high risk of developing hepatocellular carcinoma (HCC). As such, HBV remains a serious health priority and the development of novel curative therapeutics is urgently needed. CHB has been attributed to the persistence of the covalently closed circular DNA (cccDNA) which establishes itself as a minichromosome in the nucleus of hepatocytes. As the viral transcription intermediate, the cccDNA is responsible for producing new virions and perpetuating infection. HBV is dependent

Silencing HBV cccDNA - the potential of an epigenetic therapy approach



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Publish Year: 2018

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epigenetic modifying agent, suggesting that **silencing cccDNA** epigenetically might be a viable **therapeutic approach**. Results Experimental System: De Novo Infection of **HepG2** Cells with **HBV** and **cccDNA-Containing Chromatin Enrichment**. **HepG2** is a hepato-blastoma-derived cell line that supports **HBV** replication (17)

Cited by: 167

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Mapping of histone modifications in episomal HBV cccDNA ...

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Oct 20, 2015 · Chronic hepatitis **B virus** (HBV) infection is maintained by the persistence of episomal HBV closed circular DNA (**cccDNA**) in infected hepatocytes. Current therapeutic regimes have no or limited

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Cited by: 2

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Epigenetic modulation in chronic hepatitis B virus ...

<https://link.springer.com/article/10.1007/s00281-020-00780-6> ▼

Mar 17. 2020 · Knowledge of the complex network of interactions that **HBV** engages with its host is still

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Publish Year: 2018

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

Family: Hepadnaviridae

Genus: Orthohepadnavirus

Domain: Virus

Class: Revtraviricetes

Biological rank: Species

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