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Basic Study

Construction of replication-competent hepatitis B virus vector carrying secreted luciferase transgene and new hepatitis B virus replication and expression cell lines

Jie Ruan, Cai-Yan Ping, Shuo Sun, Xin Cheng, Peng-Yu Han, Yin-Ge Zhang, Dian-Xing Sun

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Replication-Competent Infectious Hepatitis B Virus Vectors ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3615001

Although replication efficiency dropped with increasing transgene size, a vector carrying a **399 bp transgene** replicated at about 40% the level of **wild-type HBV**, and the low level of replication induced by a **720 bp transgene** was still sufficient to easily detect infected cells via expression of the encoded fluorescent reporter protein and even infection inhibition by neutralizing antibodies.

Cited by: 15 **Author:** Zihua Wang, Li Wu, Xin Cheng, Shizhu Li...
Publish Year: 2013

Replication-Competent Infectious Hepatitis B Virus Vectors ...

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0060306

For several **virus** families, **replication**-competent vectors **carrying** reporter genes have become invaluable tools for easy and quantitative monitoring of **replication** and infection, and thus also for identifying antivirals and **virus** susceptible cells. For **hepatitis B virus** (HBV), a small enveloped DNA **virus** causing B-type **hepatitis**, such vectors ...

Replication-Competent Infectious Hepatitis B Virus Vectors ...

https://www.researchgate.net/publication/236186335_**Replication-Competent**_Infectious...

Replication-Competent Infectious **Hepatitis B Virus** Vectors **Carrying** Substantially Sized Transgenes by Redesigned Viral Polymerase Translation ... in an HBV infected **cell vector replication** may be ...

Author: Zihua Wang, Li Wu, Xin Cheng, Dianxi...

Control of hepatitis B virus replication by innate ...

https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.23230

Dec 23, 2009 · **Hepatitis B virus** (HBV) is currently viewed as a **stealth virus** that does not elicit innate immunity in **vivo**. This assumption has not yet been challenged in **vitro** because of the lack of a relevant cell culture system. The **HepaRG cell line**, which is physiologically closer to differentiated hepatocytes and permissive to **HBV infection**, has opened new perspectives in this respect.**HBV baculoviruses** were used to initiate an **HBV replication** ...

Cited by: 138 **Author:** Julie Lucifora, Julie Lucifora, David Durant...
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Hepatitis B virus infection enhances susceptibility toward ...

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Construction of replication-competent HBV vectors. The exact junction sequences upstream and downstream of the IRES elements are given in Table S2. Together, the **heterologous** sequences increase the size of the **unit length HBV** genome from 3182 bp to 3822 bp in **pCH-BsdR**...

Cited by: 15 **Author:** Zihua Wang, Li Wu, Xin Cheng, Shizhu Li...
Publish Year: 2013

Replication-Competent Infectious Hepatitis B Virus Vectors ...

https://paperity.org/p/61057252/**replication-competent**-infectious-**hepatitis-b-virus**...

Zihua Wang, Li Wu, Xin Cheng, Shizhu Liu, Baosheng Li, Haijun Li, Fubiao Kang, Junping Wang, Huan Xia, Caiyan Ping, Michael Nassal, Dianxing Sun. **Replication**-Competent Infectious **Hepatitis B Virus** Vectors **Carrying** Substantially Sized Transgenes by Redesigned Viral Polymerase Translation, PLOS ONE, 2013, DOI: 10.1371/journal.pone.0060306

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Hepatitis B virus-based vectors allow the elimination of **viral gene expression** and the insertion of foreign promoters. **Hum Gene** Ther 2004; 15: 203-210. CrossRef | PubMed | CAS | Web of Science® Times Cited: 10; 22 Gripon P, Rumin S, Urban S, Le Seyec J, Glaise D, Cannie I, et al. **Infection** of a **human hepatoma cell line** by **hepatitis B virus**.

Published in: Hepatology · 2014
Authors: Marianna Hosel · Julie Lucifora · Thomas Michler · Gisela Holz · Marion Gruffaz · Ste...
Affiliation: Ludwig Maximilian University of Munich · French Institute of Health and Medical Resea...

Hepatitis B Virus Activates Signal Transducer and ...

https://www.sciencedirect.com/science/article/pii/S2352345X17301066

Our findings provide **new** insides into **hepatitis B virus**–host interaction and open a **new** avenue to the development of drugs that control the infection and may help to prevent carcinoma development. The **hepatitis B virus** (HBV) is a small, enveloped DNA **virus** characterized by a pronounced liver tropism

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Replication-Competent Infectious **Hepatitis B Virus** Vectors **Carrying** Substantially Sized Transgenes by Redesigned Viral Polymerase Translation Zihua Wang , # 1, 2 Li Wu , # 1, ¤ Xin Cheng , # 1 Shizhu Liu , 1 Baosheng Li , 1 Haijun Li , 1 Fubiao Kang , 1 Junping Wang , 1 Huan Xia , 1 Caiyan Ping , 1 Michael Nassal , 3, * and Dianxing Sun 1, *

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Cited by: 138 **Author:** Julie Lucifora, Julie Lucifora, David Durante...
Publish Year: 2010

Inhibition of Hepatitis B Virus Replication by Helper ...

https://www.hindawi.com/journals/bmri/2014/718743

Research on applying RNA interference (RNAi) to counter HBV **replication** has led to identification of potential therapeutic sequences. However, before clinical application liver-specific **expression** and efficient delivery of these sequences remain an important objective. We recently reported short-term inhibition of HBV **replication** in vivo by using helper-dependent adenoviral vectors (HD-Ads