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Therapies against hepatitis B virus (HBV) have improved in recent decades; however, the development

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### Modeling Hepatotropic Viral Infections: Cells vs. Animals

<https://www.mdpi.com/2073-4409/10/7/1726/htm>

Jul 08, 2021 · A chimeric humanized mouse **model** by engrafting the **human induced pluripotent stem cell-derived** hepatocyte-like cell for the chronic **hepatitis B virus infection**. Front. Microbiol. 2018 , 9 , 908.

### Recapitulation of hepatitis B virus–host interactions in ...

[https://www.thelancet.com/article/S2352-3964\(18\)30300-1/fulltext](https://www.thelancet.com/article/S2352-3964(18)30300-1/fulltext)

In this study, we used **human induced pluripotent stem cell (hiPSC)** to generate a functional liver organoid (LO) that inherited the genetic background of the donor, and evaluated its application in **modeling HBV infection and** exploring virus–host interactions.

Cited by: 53 Author: Yun-Zhong Nie, Yun-Wen Zheng, Yun-Wen Z...

Publish Year: 2018

### Recapitulation of hepatitis B virus–host interactions in ...

**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 65531

**Manuscript Type:** REVIEW

**Hepatitis B virus infection modeling using multi-cellular organoids derived from human induced pluripotent stem cells**

HBV modeling with hiPSC-liver organoids

**Abstract**

Chronic infection with hepatitis B virus (HBV) remains a global health concern despite the availability of vaccines. To date, the development of effective treatments has been severely hampered by the lack of reliable, reproducible, and scalable *in vitro* modeling systems that precisely recapitulate the virus life cycle and represent virus-host interactions. With the progressive understanding of liver organogenesis mechanisms, the development of human induced pluripotent stem cell (iPSC)-derived hepatic

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Therapies against hepatitis B virus (HBV) have improved in recent decades; however, the development of individualized treatments has been limited by the lack of individualized **infection models**. In this study, we used **human induced pluripotent stem cell (hiPSC)** to generate a functional liver organoid (LO) that inherited the genetic background of the donor, and evaluated its application in ...

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Sep 01, 2018 · 1. Introduction. Although vaccines and therapies against hepatitis B virus (HBV) have improved in recent decades, an estimated 257 million people are still living with hepatitis B virus **infection** with markedly heterogeneous outcomes [1, 2]. Some individuals have self-limiting, symptom-free **infection**, whereas others develop liver cirrhosis and/or hepatocellular carcinoma [].

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Author: Yun-Zhong Nie, Yun-Wen Zheng, Yun-We...

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<https://europepmc.org/article/MED/30120080> ▾

Aug 16, 2018 · Recapitulation of hepatitis B virus–host interactions in liver organoids from human induced pluripotent stem cells Yun-Zhong Nie , a, 1 Yun-Wen Zheng , a, b, c, , 1 Kei Miyakawa , d Soichiro Murata , a Ran-Ran Zhang , a Keisuke Sekine , a Yasuharu Ueno , a Takanori Takebe , a Takaji Wakita , e Akihide Ryo , d and Hideki Taniguchi a, f,

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### Human induced-pluripotent stem cell-derived hepatocyte ...

<https://www.nature.com/articles/srep45698>

Apr 04, 2017 · Human induced-pluripotent stem cell-derived hepatocyte-like cells as an in vitro model of human hepatitis B virus infection. Sci. Rep. 7 , 45698; doi: 10.1038/srep45698 (2017).

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Author: Fuminori Sakurai, Seiji Mitani, Tatsuro Ya...