

## Accepted Manuscript

Human stem cell-derived hepatocytes as a model for hepatitis B virus infection, spreading and virus-host interactions

Yuchen Xia, Arnaud Carpentier, Xiaoming Cheng, Peter Daniel Block, Yao Zhao, Zhensheng Zhang, Ulrike Protzer, T. Jake Liang

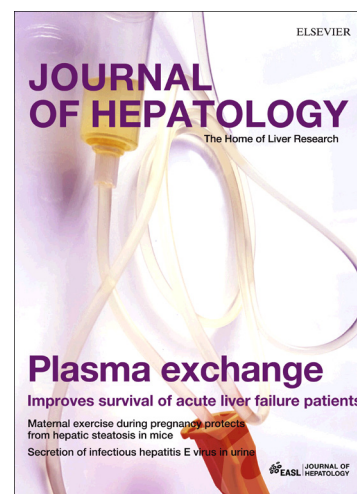
PII: S0168-8278(16)30572-4  
DOI: <http://dx.doi.org/10.1016/j.jhep.2016.10.009>  
Reference: JHEPAT 6288

To appear in: *Journal of Hepatology*

Received Date: 26 April 2016  
Revised Date: 3 October 2016  
Accepted Date: 3 October 2016

Please cite this article as: Xia, Y., Carpentier, A., Cheng, X., Block, P.D., Zhao, Y., Zhang, Z., Protzer, U., Jake Liang, T., Human stem cell-derived hepatocytes as a model for hepatitis B virus infection, spreading and virus-host interactions, *Journal of Hepatology* (2016), doi: <http://dx.doi.org/10.1016/j.jhep.2016.10.009>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## Human stem cell-derived hepatocytes as a model for hepatitis B virus infection, spreading and virus-host interactions

Yuchen Xia<sup>1</sup>, Arnaud Carpentier<sup>1</sup>, Xiaoming Cheng<sup>1</sup>, Peter Daniel Block<sup>1</sup>, Yao, Zhao<sup>1</sup>, Zhensheng Zhang<sup>1</sup>, Ulrike Protzer<sup>2,3</sup>, T. Jake Liang<sup>1\*</sup>

<sup>1</sup> Liver Diseases Branch, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD, United States

<sup>2</sup> Institute of Virology, Technical University of Munich / Helmholtz Zentrum München, 81675 Munich, Germany

<sup>3</sup> German Center for Infection research (DZIF), Munich partner site

**\*Corresponding author:** Dr. T. Jake Liang, Liver Diseases Branch, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD 20892, USA. Tel: +1-301-402-1972, Email: jakel@bdg10.niddk.nih.gov

**Keywords:** hepatitis B virus, stem cell, model, antivirals

**Abbreviations:** HBV (hepatitis B virus), HCC (hepatocellular carcinoma), NUC (nucleos(t)ide analogs), IFN- $\alpha$  (interferon- $\alpha$ ), NTCP (sodium-taurocholate cotransporting polypeptide), rcDNA (relaxed circular DNA), cccDNA (covalently closed circular DNA), pgRNA (pregenomic RNA), HLCs (hepatocyte-like cells), PHHs (primary human hepatocytes), HBVcc, (cell culture derived HBV), MOI

Download English Version:

<https://daneshyari.com/en/article/5660619>

Download Persian Version:

<https://daneshyari.com/article/5660619>

[Daneshyari.com](https://daneshyari.com)