

Name of journal: World Journal of Hepatology

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Manuscript Type: Editorial

Title: Innate immune recognition of Hepatitis B virus

Responses to reviewer's comments

Reviewed by 03309531

The article entitled "Innate Immune Recognition of Hepatitis B virus" written by Drs. Liu and Zhang highlights some of the recent advances to examine the role of TLR signaling through innate immune cells (in particular the kuffer cells and hepatocytes). This article is well written and highlights some of the new work examining the role of innate immune cells by HBV. I would like to see a little more discussion about some of the specific mechanisms by which signaling through PRRs can protect the host against of HBV (specially reference 21).

Author reply: Thanks a lot for suggestion. Here we added another paragraph about "PRR activation controls HBV infection" in the maintext. In this paragraph, we described the specific mechanisms of different PRR signaling involved in controlling HBV infection.

Reviewed by 02445074

GENERAL COMMENTS: It is a worthy topic. Some of the English expression needs much work - comments below only begin to address the problems. It would have helped the reviewer to have the pages and lines numbered.

Author reply: The manuscript format has been updated following author instructions and the English expression was reviewed by a language Editing company. The certification was attached.

SPECIFIC COMMENTS: 1. Abstract Reword as “remains controversial”. Reword as “Data accumulated”. Reword as “Such evaluation could help us understand”.

Author reply: Done

2. Core tip Reword as “receptors, resulting in the production of”.

Author reply: Done

3. Introduction Reword as “This review will evaluate current findings, some of which are contradictory, regarding induction of innate immunity by HBV infection and how innate immune sensors are able to recognize HBV components”.

Author reply: Reword as “This review will summarize and evaluate the current findings, some of which are still contradictory, regarding the induction of innate immunity by HBV infection and how innate immune sensors are able to recognize HBV components”

4. “trained immunity”?

Author reply: Reword as “Hong M. et al revealed that HBV exposure in utero induced innate immune cell maturation and Th1 response development, which in turn enhanced the responses of cord blood immune cells to bacterial infection in vitro [11].”.

5. “formatting capsids”?

Author reply: Reword as “HBV nucleocapsids”.

6. Reword as “and thus induces innate immune responses that restrict virus replication and expansion”.

Author reply: Done

7. Reword as “Of particular relevance is that in chronic infections HBV not so much escapes induction innate immunity by ‘stealth’ but can actively suppress induction, through the action different viral proteins”.

Author reply: Reword as “Considering the suppressive effect of different viral proteins on innate immune system may contribute to viral persistence in

chronic HBV infection”

8. Reword as “ “may be helpful in clearing HBV infections”.

Author reply: Done