



## PEER-REVIEW REPORT

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

**Manuscript NO:** 63885

**Title:** Innate and adaptive immune escape mechanisms of hepatitis B virus

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03765308

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Doctor, Professor

**Reviewer's Country/Territory:** Taiwan

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-02-04

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-06-26 07:54

**Reviewer performed review:** 2021-07-04 06:05

**Review time:** 7 Days and 22 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ] Yes [ **Y** ] No

### **SPECIFIC COMMENTS TO AUTHORS**

The reviewers made a comprehensive summary of innate and adaptive immune escape mechanism of HBV. They also give a discussion on current and future anti-HBV therapy. Comments 1. INTRODUCTION: Please describe the mechanism of HBV escape from immune surveillance. Such as neonatal immune tolerance and HLA-DP and -DQ antigen presenting system. 2. HBV ESCAPES INNATE IMMUN SURVEILLANCE: Reader will be appreciated to have a figure that demonstrate the interaction between HBV and innate immunity. Potential response with HBsAg, HBcAg, HBeAg and HBxAg. 3. HBV infection and type-I interferon (IFN-I): It will be better to start with spontaneous IFN secretion in resting stage of HBsAg carriers. IFN secretion is quite low at this stage that is compatible with the immune tolerance situation. The first paragraph seems to describe the response after interferon administration. 4. HBV infection and macrophages: Kupffer cells is a tissue-resident macrophages in the liver sinusoids. Please describe it function in liver during inflammation. 5. HBV infection and NK cells: Please strengthen the main effector cells by "NK cells constitute up to 40-50% of human liver lymphocytes". 6. HBV ESCAPES ADAPTIVE IMMUNE SURVEILLANCE: Please give a brief description concerns about HLA-II on HBV anti-gen presentation and persistent infection.