



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63097

Title: Human immune repertoire in hepatitis B virus infection

Reviewer's code: 03482299

Position: Editorial Board

Academic degree: MD

Professional title: Assistant Professor, Chief Doctor, Chief Physician, Deputy Director, Director, Professor, Teacher

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2021-01-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-26 03:43

Reviewer performed review: 2021-01-28 06:17

Review time: 2 Days and 2 Hours

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 Grade E: Do not publish |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



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SPECIFIC COMMENTS TO AUTHORS

The manuscript is well presented and interesting. Especially, it illustrates human immune repertoire methodology and summarizes the advance of immune repertoires that influences different outcomes of HBV infection, which will be help in clinical practice. Existing deficiencies: 1. The description of TCR and BCR structure is too heavy and long. 2. There are too many descriptions about the development and treatment of chronic hepatitis B that have no correlation to Immune repertoire. 3. The correlation between Immune repertoire and the incidence and efficacy of chronic hepatitis B is not clear enough.



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63097

Title: Human immune repertoire in hepatitis B virus infection

Reviewer's code: 00003629

Position: Editorial Board

Academic degree: MD

Professional title: Emeritus Professor

Reviewer's Country/Territory: Greece

Author's Country/Territory: China

Manuscript submission date: 2021-01-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-26 11:10

Reviewer performed review: 2021-02-08 19:58

Review time: 13 Days and 8 Hours

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scientific quality | <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 |
| Language quality | <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 |
| Conclusion | <input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Re-review | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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SPECIFIC COMMENTS TO AUTHORS

The paper by Zhan Q et al. entitled "Human immune repertoire in hepatitis B virus infection" summarizes data of gene analysis derived by high throughput sequencing related to immune responses of patients with the HBV infection clinical spectrum. The subject concerns current front-line research and is not expected to be an easy reading material by people without a good biological background. It gives, however, a vivid picture of the potential of modern technology able now to investigate in depth vital biological problems, impossible to explore a few years ago. My comments to the authors follow. General Comments: 1. The English language of the text needs improvement. 2. The immune repertoire is not the same in all persons. It depends on the life-time exposure to various foreign antigens of each one of us and it is not the same in all persons. How one can be sure that some of the immune repertoire differences found in HBV-infected persons are HBV-related and not random? An answer to this question is good to appear somewhere in the article. 3. I would suggest that authors should explain in a separate glossary or commentary the meaning of such terms as "gene recombination", "random additions", "deletions", "somatic hypermutations", "gene conversion", "receptor editing", "class-switch recombination", "high-throughput sequencing", "individualized vs. common clonality" etc. Readers of the article may not be familiar with these terms and, I consider some explanations necessary. Major Comments: 1. (Page 2, line 14): There is no cure for chronic DNA viral infections. The authors should refer to a "functional cure". 2. (Page 6, line 17): The authors should give more details about the HBV status of the tested persons. 3. (Page 21, Table 1): Please explain abbreviations in a footnote of the table. Minor Comments: 1. (Page 2, Line 2): ...afflicting 257 million people worldwide. 2. (Page 5, Line 20): Do the authors mean "targeting known 3' end sequence"?