

Dear Sir, enclosed you will find the **revised** paper in which the modifications suggested by the Reviewers have been made and are detailed as follows. All the changes made in the article have been highlighted in red colour in order to facilitate the supervision of the Editors and Reviewers.

EDITOR'S COMMENTS TO AUTHOR:

- Please provide language a certificate letter from a professional English language editing company (Classification of the manuscript language quality evaluation is B).

The revised version of the manuscript has been reviewed by a professional English language editor and the certificate has been attached to the rest of the documents sent.

- The title must be informative, specific, and brief (Title should be no more than 10~12 words/60 bytes. Please revise it). Words should be chosen carefully for retrieval purposes. All nonfunctional words should be deleted, such as 'the', 'studies on', 'observations of', and 'roles of', *etc.*

As requested, we have shortened the title to *Immunogenicity and mechanisms impairing the response to vaccines in inflammatory bowel disease.*

- The format of this section should be like this: **Author contributions:** Wang CL and Liang L contributed equally to this work; Wang CL, Liang L, Fu JF, Zou CC, Hong F and Wu XM designed research; Wang CL, Zou CC, Hong F and Wu XM performed research; Xue Jz and Lu JR contributed new reagents/analytic tools; Wang CL, Liang L and Fu JF analyzed data; and Wang CL, Liang L and Fu JF wrote the paper.

This section has been adapted to the format required.

- Conflicts of interest: Please add these content, which must be provided, otherwise the manuscript will be unaccepted finally.

The conflicts of interest of each author have been added.

- Please write a summary of no more than 100 words to present the core content of your manuscript, highlighting the most innovative and important findings and/or arguments. The purpose of the Core Tip is to attract readers' interest for reading the full version of your article and increasing the impact of your article in your field of study.

This section has been added as requested

- Please read the core tip then provide the audio core tip: **Acceptable file formats:** .mp3, .wav, or .aiff; **Maximum file size:** 10 MB. To achieve the best quality, don't allow to have the noise.

As requested, we have recorded the core tip section in mp3 format.

REVIEWERS' COMMENTS TO AUTHOR:

Reviewer: 1

- Marin et al. reviewed the recent knowledge regarding the efficacy of vaccines and the possible mechanisms of impairing the response to vaccines in IBD patients. As more and more IBD patients need immunosuppression, which affect the efficacy of vaccination – the topic is very actual. This is a well written summary of the topic, however, I have some comments. In general: The parts of the manuscript which review the efficacy of the different vaccination is very useful. However, the parts which try to explain the possible mechanism of inefficacy of a given vaccination are confusing a bit for me. Proven mechanisms should be enhanced and support with references, while speculated mechanism should be just mention as a possibility.

Thank you for your comments. We have added new references and re-written some sentences in order to give clearer information to the readers.

- The number of the patients of studies reviewed in the hepatitis B section is very different. Data are presented in percentage and numerically also. In case of low number of patients, the numeric version is preferable in my opinion. (eg 3/6 instead of 50%). Uniform way of presentation of these data would allow the readers to weight the results properly.

We agree with you that it is more informative use the numeric version for small sample sizes, so we have changed to a numeric version those cases with low number of patients, and we have use only percentage in case of high-recruitment studies.

- In the influenza section, I advise to review the paper of Balint et al. (Scand J Gastroenterol, 2015).

Thank you for your comment. We have read the article of Balint et al., and now it is commented in the manuscript.

- Source of recommendation should be signed in the tables. Or it is an own recommendation?

The source of recommendations showed in table 1 is the *Second European evidence-based consensus on the prevention, diagnosis and management of opportunistic infections in inflammatory bowel disease*. In table 2, the source of the mechanisms is added.

- Formal: There are some misspellings and mistyping in the text (like: polymorphism, vaccines, etc.), these should be repaired. Minor language polishing is also recommended.

As requested, we sent this article to a professional English language editor before sending it back to World Journal Gastroenterology.

- Form of the references is correct?

We have reviewed the format of the references, and we think that now fulfils the requisites of the journal.

- In summary: It is a carefully written review of the topic, which needs some formal and language polishing. Facts and presumptios should be detached regarding mechanisms of inefficacy of vaccines.

Thank you for your contribution. We hope that the changes made in the article will satisfy the requisites of this journal, and we expect that the information provided will be of the interest of the IBD specialists.