

Dear editor:

Thank you for your comments concerning our manuscript entitled “Dynamic changes and clinical value of LCN2 in liver diseases caused by microbial infections”. We have read through comments carefully and revised the format of the manuscript according to the online instructions to authors which we hope meet with your approval. We would love to thank you for allowing us to resubmit a revised copy of the manuscript and highly appreciate your time and consideration.

Please do not hesitate to contact us if there are any questions. Thanks again to editors for your hard work!

Sincerely

Cheng Zhou (**corresponding author**)

E-mail: zhoucheng0113@zju.edu.cn

This section was revised and modified according to the information showed in the work suggested by the reviewers.

The following peer-review report and comments from the Editorial Office (Science Editor, Editorial Office Director, and Company Editor-in-Chief) are provided for your reference.

1 Peer-review report

Reviewer #1:

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: The present review was proposed to summarize the recent advances in the dynamic changes, clinical values, and the effects of LCN2 in infectious liver diseases caused by various microbial microorganisms. Actually, the current proposal is interesting and well-written. Therefore, I recommend that the current study be published after minor revisions as follows: 1- Could the authors deeply discuss the potential role of macrophage M1 in the liver? Reference: GATA3 as an immunomodulator in obesity-related metabolic dysfunction associated with fatty liver disease, insulin resistance, and type 2 diabetes. *Chem Biol Interact.* 2022 Oct 1;366:110141. doi: 10.1016/j.cbi.2022.110141. 2- Please refer to the role of iron metabolism in the different live infections. Reference: Iron metabolism disorders in patients with hepatitis B-related liver diseases. *World J Clin Cases.* 2018 Nov 6;6(13):600-610. doi: 10.12998/wjcc.v6.i13.600.

Response:

1. Yes, we deeply discussed the potential role of macrophage M1 in the liver. Please see in the section of “*In parasitic infectious liver diseases*”, the passage of which is covered with yellow (references 62~65).

2. According to the opinion of reviewer, we have revised and supplemented the role of iron metabolism in different liver infections. Please see the sentence covered with yellow in the section of “*In viral infectious liver diseases*” (reference 34)

2 Editorial Office's comments

(1) Science editor:

1 Conflict of interest statement: Academic Editor has no conflict of interest. 2 Academic misconduct: No academic misconduct was found. 3 Scientific quality: The authors submitted a study of dynamic changes and clinical value of LCN2 in liver diseases caused by microbial infections. The manuscript is overall qualified. (1) Advantages and disadvantages: The reviewers have given positive peer-review reports for the manuscript. Classification: Grade C; Language Quality: Grade B. The present review was proposed to summarize the recent advances in the dynamic changes, clinical values, and the effects of LCN2 in infectious liver diseases caused by various microbial microorganisms. Actually, the current proposal is interesting and well-written. However, the manuscript needs to adjust the references. (2) Main manuscript content: The author clearly stated the purpose of the study and the research structure is complete. However, the manuscript still require a further revision according to the detailed comments listed below. (3) Table(s) and figure(s): There are 1 Figure and 1 Table should be improved. Detailed suggestions for each are listed in the specific comments section. (4) References: A total of 63 references are cited, including 9 published in the last 3 years. The author does not have self-cited references. The reviewer didn't request the authors to cite improper references published by him/herself. 4 Language evaluation: The English-language grammatical presentation needs to be improved to a certain extent. There are many errors in grammar and format, throughout the entire manuscript. Before final acceptance, the authors must provide the English Language Certificate issued by a professional English language editing company. Please visit the following website for the professional English language editing companies we recommend: <https://www.wjgnet.com/bpg/gerinfo/240>. 5 Specific comments: (1) Please provide the Figures cited in the original manuscript in the form of PPT. All text can be edited, including A, B, arrows, etc. With respect to the reference to the Figure, please verify if it is an original image created for the manuscript, if not,

please provide the source of the picture and the proof that the Figure has been authorized by the previous publisher or copyright owner to allow it to be redistributed. All legends are incorrectly formatted and require a general title and explanation for each figure. Such as Figure 1 title. A: ; B: ; C: . (2) Please obtain permission for the use of picture(s). If an author of a submission is re-using a figure or figures published elsewhere, or that is copyrighted, the author must provide documentation that the previous publisher or copyright holder has given permission for the figure to be re-published, and correctly indicate the reference source and copyrights. For example, "Figure 1 Histopathological examination by hematoxylin-eosin staining (200 ×). A: Control group; B: Model group; C: Pioglitazone hydrochloride group; D: Chinese herbal medicine group. Citation: Yang JM, Sun Y, Wang M, Zhang XL, Zhang SJ, Gao YS, Chen L, Wu MY, Zhou L, Zhou YM, Wang Y, Zheng FJ, Li YH. Regulatory effect of a Chinese herbal medicine formula on non-alcoholic fatty liver disease. *World J Gastroenterol* 2019; 25(34): 5105-5119. Copyright ©The Author(s) 2019. Published by Baishideng Publishing Group Inc[6]". And please cite the reference source in the references list. If the author fails to properly cite the published or copyrighted picture(s) or table(s) as described above, he/she will be subject to withdrawal of the article from BPG publications and may even be held liable. (3) Please don't include any *, #, †, §, ‡, ¥, @....in your manuscript; Please use superscript numbers for illustration; and for statistical significance, please use superscript letters. Statistical significance is expressed as aP <0.05, bP <0.01 (P > 0.05 usually does not need to be denoted). If there are other series of P values, cP <0.05 and dP <0.01 are used, and a third series of P values is expressed as eP <0.05 and fP <0.01. (4) Please add the Core tip section. The number of words should be controlled between 50-100 words. (5) Please add the author's contribution section. The format of this section will be as follows: Author contributions: Wang CL, Liang L, Fu JF, Zou CC, Hong F and Wu XM designed the research; Wang CL, Zou CC, Hong F and Wu XM performed the research; Xue JZ and Lu JR contributed new reagents/analytic tools; Wang CL, Liang L and Fu JF analyzed the data; Wang CL, Liang L and Fu JF wrote the paper. (6) Please provide the PubMed numbers and DOI citation numbers to the reference list and list all authors of the references. If there is no PMID or DOI, please provide the website address. 6 Recommendation: Transfer to other BPG journals (*World Journal of Methodology*).

Response: We thank the reviewer for the detailed suggestion.

Specific comments:

1. The English-language grammatical presentation in our manuscript has been improved by a professional English teacher.

2. We thank the reviewer for commenting on the figure and for constructive suggestions to improve data visualization. We have provided the Figure cited in the original manuscript in the form of PPT. Our original Figure was drawn using the biorender website, which cannot export PPT format, we redraw the Figure using ppt.
3. We did the original figure ourselves. We didn't need permission.
4. Our manuscript does not contain any of the special characters indicated by the editor
5. We have added the Core tip section after the section of “Keywords”.
6. According to the editor's suggestion, we have added the author's contribution section. (Page 7, paragraph 2).
7. We have adjusted the format of the references according to the format requested by the editor.

(2) Company editor-in-chief:

I recommend the manuscript to be published in the World Journal of Hepatology. The 2023 Edition of Journal Citation Reports® cites the 2022 impact factor (IF) for WJH as 2.4. When revising the manuscript, it is recommended that the author supplement and improve the highlights of the latest cutting-edge research results, thereby further improving the content of the manuscript. To this end, authors are advised to apply PubMed, or a new tool, the RCA, of which data source is PubMed. RCA is a unique artificial intelligence system for citation index evaluation of medical science and life science literature. In it, upon obtaining search results from the keywords entered by the author, "Impact Index Per Article" under "Ranked by" should be selected to find the latest highlight articles, which can then be used to further improve an article under preparation/peer-review/revision. Please visit our RCA database for more information at: <https://www.referencecitationanalysis.com/>, or visit PubMed at: <https://pubmed.ncbi.nlm.nih.gov/>.

Response: According to the suggestions, we have added more information about the potential role of macrophage M1 in the liver, and also cited several recent papers (references 62,64,65) in the manuscript .

JOURNAL EDITORIAL BOARD COMMENTS TO AUTHORS

Dynamic changes and clinical value of lipocalin 2 in liver diseases caused by mycobial infections. Authors: Feng Chen, Shan-Shan Wu, Chao Chen, Cheng Zhou. This manuscript focuses on a topic of some interest, Lcn2 and its evaluation as a biochemical parameter in certain infectious pathologies. The topic is very broad, the authors have a complete vision and use the necessary references, although they should cite only those necessary. The same conclusions weaken the importance of Lcn2 in its application as a biomarker. I suggest that if you take any aspect you do it in depth, such as Lcn2 and hemochromatosis (Hua Huang, 2009, Hepatology). The manuscript has grammatical and spelling errors (even in the title), which makes it difficult to read*. The discussion is poor, so the conclusions are also poor. In a way, I think they had the help of AI, so it's an unclear combination of data, results and new possibilities. My opinion is that it is acceptable with major changes. * On page 8, it is written, LCN2 and Lcn2,

Response: We thank the editor for the detailed suggestion. According to your suggestions. We have added more information about the importance of LCN2 in the liver in introduction section. Revised portion are in red font and highlighted in yellow. Furthermore, our manuscript have edited by someone with expertise in technical English editing paying particular attention to English grammar spelling and sentence structure. The title of the article has also been revised. We don't have the help of artificial intelligence (AI). We hope our modification can meet the requirements of your journal. Thank you again for your careful work.