

Response to the reviewer's comment:

Reviewer #1:

1. Please check the spelling and grammar errors in the entire text and make the necessary modifications.

Ans. Thank you for your constructive feedback. We have thoroughly revised the manuscript to address the spelling and grammar errors as per your suggestion. Additionally, we would like to emphasize the expertise of one of the co-authors, Prof. Parames C. Sil, in English language proficiency. Parames C. Sil has a distinguished career spanning over 40 years, during which he has authored more than 186 scientific articles in the English language. His extensive experience includes over 12 years of work at the Cleveland Clinic, USA, where he contributed significantly to the field. Given his remarkable background, we are confident in the linguistic accuracy and clarity of the revised manuscript. Parames C. Sil personally conducted a meticulous review to ensure the absence of any linguistic shortcomings. We appreciate your attention to detail and assure you that the manuscript now meets the highest standards of spelling and grammar.

2. Please unify the reference format.

Ans. Thank you for your insightful feedback. We have carefully reviewed the manuscript and made the necessary adjustments to ensure a uniform reference format throughout the document. All references have been standardized according to the World Journal of Hepatology citation style. We appreciate your attention to detail, and we trust that these revisions contribute to the overall coherence and professionalism of the manuscript. If you have any additional suggestions or concerns, please don't hesitate to let us know.

3. The summaries of the mechanisms of nanomaterials-induced liver injury in Fig. 1 and Fig. 2 are not comprehensive enough, and it is suggested to supplement and enrich them.

Ans. Thank you for your thoughtful feedback. We appreciate your suggestion to enhance the comprehensiveness of the summaries in Figures 1 and 2. In response to this valuable comment, we have carefully and extensively revised and supplemented the figures to provide a more thorough and enriched overview of the mechanisms of nanomaterials-induced liver injury. We believe that these revisions significantly enhance the clarity and completeness of the content. If you have any specific points, you would like us to address or if you have further suggestions, please feel free to let us know. Your guidance is immensely valuable in improving the quality of our manuscript.

Reviewer #2:

1. I suggest to draw the table as per the standard format of the tables. The authors can consult any published article to find out the standard format of the table.

Ans. Thank you for your suggestion. We have revised the table to adhere to the standard format, consulting published articles for guidance. We believe these changes enhance the table's clarity.

2. Please reduce the font size of the title of each table.

Ans. Thank you for your feedback. We have revised the manuscript by reducing the font size of the table titles as suggested. This adjustment enhances the overall visual presentation.

3. Please write abbreviation in the form of paragraph and reduce the font size of the Heading abbreviation to 12.

Ans. We appreciate your input. We've modified the manuscript by presenting abbreviations in paragraph form. Additionally, we've reduced the font size of the Heading "Abbreviations" to 12, enhancing overall readability.

Reviewer #3:

1. This review paper aims to provide an exhaustive examination of the molecular mechanisms underpinning nanomaterial-induced hepatotoxicity, drawing insights from both in vitro and in vivo studies. The most frequently observed manifestations of toxicity following the exposure of cells or animal models to various nanomaterials involve the initiation of oxidative stress and inflammation. In addition, the latest application of nanomaterials in the medical field should be added to the discussion section, and the following latest achievements should be cited. <https://doi.org/10.1002/VIW.20200133> <https://doi.org/10.1002/VIW.20200180> <https://doi.org/10.1002/VIW.20200154> <https://doi.org/10.1002/VIW.20200067>.

Ans. We appreciate your insightful comments. In response to your suggestion, we have expanded and rewrote the discussion section to incorporate the latest advancements in nanomaterial applications in the medical field. Furthermore, we have included citations to the referenced articles. These additions contribute to a more comprehensive understanding of nanomaterial-induced hepatotoxicity, encompassing recent developments. Thank you for guiding us in enhancing the scope and relevance of our review.