### PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastrointestinal Pharmacology and Therapeutics  
**Manuscript NO:** 69646  
**Title:** Melatonin restores zinc levels, activates the Keap1/Nrf2 pathway, and modulates endoplasmic reticular stress and HSP in rats with chronic hepatotoxicity  
**Provenance and peer review:** Invited manuscript; Externally peer reviewed  
**Peer-review model:** Single blind  
**Reviewer’s code:** 03768177  
**Position:** Editor-in-Chief  
**Academic degree:** PhD  
**Professional title:** Postdoc, Professor  
**Reviewer’s Country/Territory:** China  
**Author’s Country/Territory:** Brazil  
**Manuscript submission date:** 2021-07-07  
**Reviewer chosen by:** AI Technique  
**Reviewer accepted review:** 2021-08-08 22:08  
**Reviewer performed review:** 2021-08-14 23:28  
**Review time:** 6 Days and 1 Hour

<table>
<thead>
<tr>
<th>Scientific quality</th>
<th>[ ] Grade A: Excellent</th>
<th>[ ] Grade B: Very good</th>
<th>[ ] Grade C: Good</th>
<th>[Y] Grade D: Fair</th>
<th>[ ] Grade E: Do not publish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language quality</td>
<td>[ ] Grade A: Priority publishing</td>
<td>[ ] Grade B: Minor language polishing</td>
<td>[Y] Grade C: A great deal of language polishing</td>
<td>[ ] Grade D: Rejection</td>
<td></td>
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<tr>
<td>Conclusion</td>
<td>[ ] Accept (High priority)</td>
<td>[ ] Accept (General priority)</td>
<td>[ ] Minor revision</td>
<td>[ ] Major revision</td>
<td>[Y] Rejection</td>
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<tr>
<td>Re-review</td>
<td>[Y] Yes</td>
<td>[ ] No</td>
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SPECIFIC COMMENTS TO AUTHORS

• The original finding is completely lacking in the study design, as many research have already proved this research question and provide enough mechanism evidence. You need to provide adequate reasoning as how this study is different and have novelty in providing new scientific information.

• The methods are old and now provide any significance means of using technology to find more evidence/details in the data.

• The conclusion part is not written well. You need to adequately write the conclusion with study gaps, and recommendation for future work.

• The language throughout the text needs to be revised with grammatical, syntax, paragraph corrections. Also, the writing structure need to be revised.

• The statistical analysis in figures is not correct. Check it and correct it. Also, you need to change the discussion accordingly.

• The SI unit need to be written perfectly. nmol/mg protein?

• Table 1 values need to be corrected. You have used, in zinc values.