

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Cardiology*

**Manuscript NO:** 73324

**Title:** Bioinformatics prediction of potential mechanisms and biomarkers underlying dilated cardiomyopathy

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03478635

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Senior Research Fellow

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-15 06:49

**Reviewer performed review:** 2021-12-17 04:18

**Review time:** 1 Day and 21 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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**Peer-reviewer  
statements**

Peer-Review: ☒ Anonymous ☐ Onymous

Conflicts-of-Interest: ☐ Yes ☒ No

#### **SPECIFIC COMMENTS TO AUTHORS**

This study demonstrates the identification of the potential biomarkers in dilated cardiomyopathy. 2.4 Function enrichment analysis may be revised to describe that it is gene expression enrichment analysis. The results of GSEA analysis may be described more in detail.

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**Reviewer's code:** 05457585

**Position:** Peer Reviewer

**Academic degree:** MD, MSc, PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Bangladesh

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-12-14 03:44

**Reviewer performed review:** 2021-12-25 07:53

**Review time:** 11 Days and 4 Hours

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

<b>Peer-reviewer statements</b>	Peer-Review: [ <input type="checkbox"/> ] Anonymous [ <input checked="" type="checkbox"/> ] Onymous Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No
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## SPECIFIC COMMENTS TO AUTHORS

Manuscript ID: 73324 Manuscript Title: Identification of the potential biomarkers and mechanism in dilated cardiomyopathy via bioinformatic analysis Manuscript Type: Basic Study Journal: World Journal of Cardiology Major comments: The author appraised this paper by identifying the potential biomarkers and mechanism in dilated cardiomyopathy via bioinformatic analysis. However, your article is inadequately presented. Furthermore, there are many problems in the different sections as well. Although the article has scientific rigor, several major flows need to be improved before publication.

1. The abstract section is unsuitable – no focus point in the abstract section.
2. No aim found.
3. Rewrite the conclusion (in the abstract) in a more straightforward form.
4. Authors are suggested to use the full form when used for the first time throughout the manuscript.
5. 47 up-regulated and 50 down-regulated genes were screened out. Change this sentence.
6. The introduction section is poorly written. Authors are suggested to develop the introduction section by adding the literature related to cardiomyopathy (marked, risk factor, etc.).
7. The introduction section looks concise. Try to include the existing research limitations also, how the present research unravels those limits.
8. Need to arrange the introduction section logically – few updated references cited in this section.
9. Aim of the study need to write in the last paragraph of the introduction section.
10. Material and methods are written without proper references. Need a logical flow of the writings with enough references.
11. Need to write the website and access date for all the websites.
12. PPI network construction and hub genes identification: Why STING and Cytoscape?
13. Some tools used do not represent state of the art, and hence, the quality and confidence of the results may be limited.
- 14.



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Immune cells infiltration analysis: Need to add details. 15. Function enrichment analysis: Need to add details. 16. Many of the tools used are not cutting-edge or represent the best available tools. 17. The writing of results is good. Need to maintain a logical flow of the writings with the subtitles. 18. Many grammatically problematic sentences are in the results section, which must be checked and corrected precisely. 19. Figures presentation is up to mark. 20. Figure legends are self-explanatory. 21. The discussion is feeble. Please, include the data from other sources about related works. 22. A sound discussion includes principal, relationship, and generalizations supported by the results. 23. In the discussion, many concepts already reported in the introduction are repeated, so it is better to avoid unnecessary repetitions. 24. The conclusion needs to address future perspectives. 25. Novelty of the work should be added by the author in the conclusion section. 26. Spacing, punctuation marks, grammar, and spelling errors should be reviewed thoroughly. I found so many typos throughout the manuscript. 27. English is modest. The authors need to improve their writing style. In addition, the whole manuscript needs to be checked by native English speakers.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Senior Research Fellow

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-12-14

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2022-03-07 09:59

**Reviewer performed review:** 2022-03-07 10:14

**Review time:** 1 Hour

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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

The manuscript has been revised according to the comments.