Author’s response to reviews

Title: Mechanism of tanshinones and phenolic acids from Danshen in the Treatment of Coronary heart disease based on Co-expression Network

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Author’s response to reviews:

Dear Reviewer1:

Thank you for your comments concerning our manuscript entitled “Mechanism of tanshinones and phenolic acids from Danshen in the Treatment of Coronary heart disease based on Co-expression Network”. Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. Revised portion are highlighted in yellow high light in the paper. The main corrections in the paper and the responds to the comments are as flowing:

1. Revision suggestion: The datasets and analysis details of samples are poorly described. Referring to previous publications should not substitute for a clear description of what is actually being studied.

1. Response: Thanks for your suggestion, which is very helpful to instruct us to revise the paper. The datasets and analysis details of samples are added in manuscript.

2. Revision suggestion: The authors should increase the resolution of figures.

2. Response: Thanks for your suggestion. We have increased the resolution of all figures.

3. Revision suggestion: More studies on MOA of TCM with novel bioinformatics methods should be cited and discussed, such as,


3. Response: Thanks for your suggestion. We have added the quotation and discussion of more studies on MOA of TCM with novel bioinformatics methods.

4. Revision suggestion: In general I suggest the authors to review the manuscript in order to improve the language that in some points presents some English mistakes.

4. Response: I’m sorry that there are still some grammar mistakes in this paper. Now, we have tried our best to improve the English writing and check the grammar mistakes carefully. I hope it has reached to your standard and the standard of this Journal.

Dear Reviewer 2:

Thank you for your comments concerning our manuscript entitled “Mechanism of tanshinones and phenolic acids from Danshen in the Treatment of Coronary heart disease based on Co-expression Network”. Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. Revised portion are highlighted in yellow high light in the paper. The main corrections in the paper and the responds to the comments are as flowing:

REQUESTED REVISIONS:

Some sentences for results or conclusion should be revised as no experiments have been done to demonstrate those results or conclusion.

Response: Thanks for your suggestion, which is very helpful to instruct us to revise the paper. We have revised the statements for results and conclusions carefully.

ADDITIONAL REQUESTS/SUGGESTIONS:

1. Page 2, line 16, should the full name of Ce-PIN be co-expression protein interaction network?
Response: Thanks for your suggestion. The full name of Ce-PIN has been changed to co-expression protein interaction network.

2. Page 2, lines 26-29, full names of all proteins should be provided.
Response: Thanks for your suggestion. The full names of all proteins have been provided

3. Page 2, line 38, "disease" should be revised to "diseases".
Response: Thanks for your suggestion. "disease" have been revised to "diseases".

4. Page 2, lines 43-44, reference/s needed to support this statement.
Response: Thanks for your suggestion. References have been added to support this statement.

5. Page 2, line 51, "for hundreds year" need to be revised.
Response: Thanks for your suggestion. "for hundreds year" has been changed to "for hundreds of year"

6. Page 3, lines 3-4, this sentence is not clear. The difference between these two compounds on the treatment of coronary heart disease was not elucidated completely?
Response: Thanks for your suggestion. This sentence has been changed to “However, the study of the difference between the tanshinones and phenolic acids of Danshen focused on specific activities, such as antimicrobial activity”.

7. Page 3, lines 5-6, it would be better to revise to "In this study, we will illustrate the difference between tanshinones and phenolic acids for the treatment of coronary heart disease at the molecular level."
Response: Thanks for your suggestion. This sentence has been revised.

8. Page 3, line 19, whether there are any similar studies reported on tanshinones and phenolic acids for the treatment of other diseases using Ce-PIN? Related information would be helpful if any. If not, this would be the research gap that authors can claim here.
Response: Thanks for your suggestion. According to literature research, there are no similar studies reported on tanshinones and phenolic acids for the treatment of other diseases. We have added the claim in manuscript.

9. Page 3, line 26, it should be either "in treating CHD" or "in treatment for CHD".
Response: Thanks for your suggestion. "in treating for CHD" has been changed to "in treatment for CHD"

10. Page 4, line 19, extra space should be deleted.
Response: Thanks for your suggestion. Extra space has been be deleted.

11. Page 4, line 19, revise "which" to "whose".
Response: Thanks for your suggestion. "which" has been changed to "whose"

12. Page 4, line 27-29, full names of all proteins should be provided in Tables S1 and S2.
Response: Thanks for your suggestion. The full names of all proteins have be added in Tables S1 and S2.

13. Page 4, line 36, revise "the next study" has been changed to "subsequently".
Response: Thanks for your suggestion. "the next study" to "subsequently".

14. Page 7, lines 4-7, reference/s needed to support these two sentences.
Response: Thanks for your suggestion. Reference has been added to support this statement.

15. Page 7, lines 44-45, this sentence needs to be revised because no experiments have been performed to demonstrate it. Suggest revising to "So, water-soluble compounds of Danshen may play a role in blood circulation by ……".
Response: Thanks for your suggestion. This sentence needs to be revised to “To sum up, water-soluble compounds of Danshen may play a role in blood circulation by CASR, EDNRA, EDNRB, KNG1, to treat the coronary heart disease”.
16. Page 7, lines 53-54, reference/s needed to support these two sentences.

Response: Thanks for your suggestion. References have been added to support these two sentences.

17. Page 11, lines 10-13, this sentence needs to be revised.

Response: Thanks for your suggestion. This sentence has been revised to “Hence, tanshinones may regulate the blood circulation by GUCY1A3 and GUCY1B3 to protect against myocardial ischemia reperfusion injury”.

18. Page 11, lines 15-20, reference/s needed to support these two sentences.

Response: Thanks for your suggestion. References have been added to support these two sentences.

19. Page 11, lines 54-57, reference/s needed to support this sentence.

Response: Thanks for your suggestion. Reference has been added to support this statement.

20. Page 12, lines 37-39, this sentence needs to be revised.

Response: Thanks for your suggestion. This sentence has been revised to “According to the analysis of FAG-EC algorithm and GO enrichment, Danshen may play the role in the treatment of CHD by regulating the blood circulation, immune response and lipid metabolism”.

21. Page 13, lines 2-3, this sentence is good.

22. Page 14, line 0, 29-+?

Response: Thanks for your suggestion. Incorrect citation format has been modified.

23. Page 16, line 4, + should be superscripted.

Response: Thanks for your suggestion. + has been superscripted.

Response: Thanks for your suggestion. Incorrect citation format has been modified.

25. Page 17, line 3, journal title should be abbreviated?
Response: Thanks for your suggestion. The journal title has been abbreviated.

26. Page 17, line 5, + should be superscripted.
Response: Thanks for your suggestion. + has been superscripted.

27. Page 17, line 18, journal title should be abbreviated?
Response: Thanks for your suggestion. The journal title has been abbreviated.

28. Page 17, line 22, journal title should be abbreviated?
Response: Thanks for your suggestion. The journal title has been abbreviated.

29. Page 17, lines 39, 42-43, 50-51, journal title should be abbreviated?
Response: Thanks for your suggestion. The journal title has been abbreviated.