Author’s response to reviews

Title: Study of the antitumor mechanisms of apiole derivatives (AP-02) from Petroselinum crispum through induction of G0/G1 phase cell cycle arrest in human COLO 205 cancer cells

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Author’s response to reviews:

Dear Editor:

Thank you for your kindly help in the process of reviewing this manuscript. Please find the enclosed revised version of our manuscript entitled “Study of the antitumor mechanisms of apiole derivatives (AP-02) from Petroselinum crispum through induction of G0/G1 phase cell cycle arrest in human COLO 205 cancer cells ” by Kuan-Hsun Wu et al. We are re-submitting this manuscript for consideration for publication in BMC Complementary and Alternative Medicine.
The reviewers’ comments were quite valuable and have significantly improved the scientific merit of this paper. In response to these comments, the manuscript has been rewritten in the discussion and funding section and the references were updated. All of the points raised by the reviewers have been addressed.

This manuscript has not been published or submitted for publication elsewhere. All of the authors are aware of and agree to the content of the paper. We would appreciate any suggestions and comments that could improve the scientific merit of this paper.

Best regards,

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Reviewer reports:

Please read and address the final comments provided by Reviewer 4 which can be found below

Swee Keong Yeap, PhD (Reviewer 4):

Comment:

Authors have improved the manuscript according to the reviewer’s suggestions. Below are some additional minor suggestions to authors:

Response: Thanks for the reviewer’s support. We would revise our manuscript as your suggestions.

Comment:

- Authors need to justify the concentration conversion from in vitro to in vivo.

- The discussion contains repetitive results in this study and many general information about cell cycle regulation. It will be valuable if authors can improve the discussion by removing the repeated results statement and compare their results with other references particularly on those similar class/chemical structure of compounds on colon cancer.

Response:

Thanks for the comments. We added additional statements of the escalation of Apiole concentration conversion from in vitro to in vivo in the paragraph 1, page 15, and also compared our results with antitumor effect of SY-1 derivative Apiole on colon cancer, which had been published in our previous works. Moreover some sentences of repetitive results statement were deleted.
Editor Comments:

Comment:
1. In the Funding section, please also describe the role of the funding body in the design of the study and collection, analysis, and interpretation of data and in writing the manuscript.

Response:
Thanks for the comment. We added additional statements regarding the design of the study and collection, analysis, and interpretation of data and in writing the manuscript in the funding section.

Comment:
2. Please ensure your Declarations headings match those requested in our submission guidelines:

Response:
Thanks for the comment. We have checked and all Declarations headings match those requested in submission guidelines.

Comment:
3. Please remove any files from your file inventory that you do not wish to be published alongside your manuscript.

Response:
Thanks for the comment. We would follow your instructions in the submission process.
Comment:

4. At this stage, please upload your manuscript as a single, final, clean version that does not contain any tracked changes, comments, highlights, strikethroughs or text in different colors. All relevant tables/figures/additional files should also be clean versions. Additional files should remain uploaded as separate files. Please ensure that all figures, tables and additional/supplementary files are cited within the text.

Response:

Thanks for the comment. We would follow your instructions in the submission process.