Author’s response to reviews

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

Authors:
Kuan-Hsun Wu (wkh0814@yahoo.com.tw)
Wen-Jui Lee (sam19871119@hotmail.com)
Tzu-Chun Cheng (d119096007@tmu.edu.tw)
Hui-Wen Chang (g160090005@tmu.edu.tw)
Li-Ching Chen (lcchen@tmu.edu.tw)
Chia-Chang Chen (casey5115@gmail.com)
Hsiu-Man Lien (lien736@gmail.com)
Teng-Nan Lin (bmltn@ibms.sinica.edu.tw)
Yuan-Soon Ho (hoyuansn@tmu.edu.tw)

Version: 2 Date: 27 Apr 2019

Author’s response to reviews:

Dear Editor:

Please find the enclosed revised version of our manuscript entitled “Study of the antitumor mechanisms of apiol 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 Western blot data were quantitated using densitometry analysis. The Table 1 data was analysis using suitable statistical method, as described in the revised manuscript. The manuscript has been rewritten 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,

Yuan-Soon Ho, Ph.D., Distinguished Professor
Institute of Biomedical Technology
Taipei Medical University
No. 250, Wu-Hsing St. Taipei, Taiwan
Fax No. 886-2-2739-3422
E-mail: hoyuansn@tmu.edu.tw
Reviewer reports:

Sung-Hoon Kim (Reviewer 1):

Comment:

Please include all comments for the authors in this box rather than uploading your report as an attachment. Please only upload as attachments annotated versions of manuscripts, graphs, supporting materials or other aspects of your report which cannot be included in a text format.

Response:

Thanks for the comment. We fully understand the editorial policies of BMC Complement Altern Med, and the revised manuscript has been carefully edited in the correct journal format according to the Information for Authors provided by this journal. The manuscript has been sent to a professional English editing service (Am J Expert Co.), and grammatical errors have been corrected in the revised version of the manuscript.

Comment:

Please overwrite this text when adding your comments to the authors.

Authors responded well to my comments.

Response:

The reviewer’s comments were addressed and all these revisions was indicated as underlined in the manuscript.
Salmon Adebayo, PhD (Reviewer 2):

Comment:
1. Under the determination of cell viability sub-section, the volumes of the cell suspension and the treatments were not stated.

Response:
Thanks for the comment. We add additional statements of drug treatments in the Methods section. The cell viability was determined according to our previous papers and the changed was indicated as underlined. Please see page 7, lines 2 to 3 and line 7.

Comment:
2. A few repetition of the same or similar sentences were recorded in the discussion section. A review of this section is advised before publication. For example, the phrase "Previous studies have indicated that the extract from Petroselinum crispum exerts various effects, including anti-oxidation effects, protection against DNA damage, and anti-proliferation effects in human cancer cells" was repeated under similar context twice in this section.

Response:
Thanks for the comment. We have checked the sentences and delete the similar statements in the Discussion section.

Comment:
3. Under the acknowledgement section, authors need to provide at least a few names, if not all and the affiliations of people that contributed significantly towards the completion of the research.

Response:
Additional statements in the revised acknowledgement was added. Please see page 16, Acknowledgments section.
Ahmed Abdel Moneim (Reviewer 3):

Comment:
- There are many English errors. The work should be revised by an English native speaker.

Response:
Thanks for the comment. We have sent this revised manuscript for grammatical check (Am J Expert Co.). The EDITORIAL CERTIFICATE was attached in the supplementary material.

Comment:
- Some references are old references or papers publish on low quality journals and there are new versions of the manuscript. Please use the new papers instead of the old papers.

Response:
We have updated the new references (ref 1, 5, 16, 17, 34, 35, 39, 40, 41, 42, 43, 44) in the revised manuscript and deleted some references (ref 1, 5, 6, 28, 35, 40, 41) of previous submitted manuscript.

Comment:
- Statistical analysis of table 1 is not correct.

Response:
Sorry for the mistake. We have revised the method of statistical analysis in the revised manuscript. Please see page 9-10, Statistical Analysis section.
Comment:

- Western blot results should be analyzed using dimensionmetry analysis.

Response:

Thanks for the comment. We have added additional statements in the revised manuscript. Please see page 8, 2nd paragraph, lines 8 to 11, and page 21, figure 7 section, line 8 to 11. The results of Western blot were analyzed using densitometry analysis and indicated in the revised Figure 7.

Comment:

- When the authors found significant, this significant against which group?

Response:

This is important comment. We add additional statements in the revised manuscript and indicated as underlined. The significant changes were compared to the control-treated group.