Reviewer’s report

Title: Effects of different extracts of Curcumin on TPC1 papillary thyroid cancer cell line

Version: 0 Date: 15 Aug 2017

Reviewer: Yong-Ki Park

Reviewer's report:

Comments to the Authors:

This paper by A Perna et al. "Effects of Curcuminoids on the papillary thyroid cancer cell line" was reviewed.

I have following concerns regarding this study.

1) In cell viability assay with figure 3, the relative/attached cell viability of each 24h or 48h was very low (<40%), so I think that the cells were not enough to isolate total protein for Western blot. Please describe how to solve this problem in the part of Western blot assay.

2) I recommend that the name of cell line, TPC1 is suggested in the title e.g. Effects of Curcuminoids on FTC1 papillary thyroid cancer cells. Also, the tested/effective compounds, curcuminoids or curcumin is not clear. The authors concluded mainly about the anticancer effects of curcumin in TPC1 cells. If curcumin is main compound in this study, it is needs to suggest clearly in Discussion and also the title e.g. Effects of curcumin on FTC1 papillary thyroid canc……

3) It should be written "TPC1 cells" instead of its full name "a papillary thyroid carcinoma cell line TPC1" because it was previously refer in Introduction (lines 171-2).

4) It should be added the significant difference e.g. (p<0.01) in each result of Results part.

5) The authors used three types of curcuminoids (Table 1). It should be summarized their efficacies, differences etc. for reader's understanding in Conclusion.

6) I wonder the therapeutic value of curcumin in FTC1 papillary thyroid cancer cells relating the importance of papillary thyroid cancer or its pathophysiology. What is the value of curcumin on complementary and alternative medicine? It should be described in Conclusion.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes
Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Unable to assess

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
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