Reviewer's report

Title: Antiproliferative activity and induction of apoptosis by Annona muricata (Annonaceae) extract on human cancer cells

Version: 2 Date: 11 August 2014

Reviewer: Seong Woo Yoon

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Major Compulsory Revisions

1. Cell viability test on PC-3 cells should be deleted. Except of cell viability test, there are no other data about PC-3 cells. Even in the background, only the research plan on HL-60 cells appears. As cell viability test on PC-3 cells are deleted, the title also should be changed more specifically.

2. The active components of A. muricata showing anti-cancer effects should be mentioned in the background or discussion section. This research only focuses on the anticancer effects of anti-oxidant properties of A. muricata. There are other research papers which focused on the anticancer activities of the active components of A. muricata.

Minor Essential Revisions

1. (Page 2, line 41) “follow” should be changed to “followed”.

2. (Page 2, line 46, 49), (Page 10, line 268, 274, 275), (Page 13, line 362) “Go” should be changed to “G0”.

3. (Page 4, line 105) the blank line should be added between line 105 and line 106.

4. (Page 5, line 132, 133) the blank should be added before “penicillin” and “The cells”.

5. (Page 5, line 141) the blank should be deleted between “extracts” and “in”.

6. (Page 7, line 196) discussion should be deleted.

7. (Page 8, line 216 to 218) the comment does not match with the data of table 2. “Table 1” should be changed to “Table 2”.

8. (Page 9, line 241) the blank should be deleted between “levels” and “generated”.

9. (Page 9, line 255) “(Figs 4A, B & C)” should be changed to “Figs 4A, B & C”.

10. (Page 10, line 287) the blank should be added before “Chemotherapy” and “from” should be deleted.
11. The reference number and style should follow the guidelines of this journal.
12. (Page 10, line 290) the blank should be deleted between “on” and “several”.
13. (Page 11, line 297) the blank should be deleted between “[31].” and “A”.
14. (Page 12, line 349 to 350) the font is different from other text.
15. (Page 13, line 356, 361) “et” and “rexhibits” should be corrected.
16. (Figures) there are no explanations about F, R, E, and MMPs in the figure legends.
17. (Table 1) there are no explanations about a, b, and c.

**Level of interest:** An article of limited interest

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests.