Author's response to reviews

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

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Author's response to reviews: see over
To whom it may concerned

Object: Submission of the manuscript

Dear Sir

I the undersigned corresponding author of the manuscript title “Antiproliferative activity and induction of apoptosis by *Annona muricata* (Annonaceae) extract on human cancer cells” hereby declare that the manuscript which is submitted for publication in the *BMC Complementary and alternative Medicine* has been revised.

All the corrections are highlighted

I hope that this Ms will be published into your journal.

Looking forward to hearing from you.

Yours sincerely

Pieme Constant Anatole
Reviewer: Seong Woo Yoon

Major Compulsory Revisions

Q1. 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.
Asn: Correction has been done

Q2. 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.
Asn: Correction has been done

Minor Essential Revisions

Q1. (Page 2, line 41) “follow” should be changed to “followed”.
Asn: Correction has been done

Q2. (Page 2, line 46, 49), (Page 10, line 268, 274, 275), (Page 13, line 362) “Go” should be changed to “G0”.
Asn: Correction has been done
Q3. (Page 4, line 105) the blank line should be added between line 105 and line 106.
Asn: Correction has been done

Q4. (Page 5, line 132, 133) the blank should be added before “penicillin” and “The cells”.
Asn: Correction has been done

Q5. (Page 5, line 141) the blank should be deleted between “extracts” and “in”
Asn: Correction has been done

Q6. (Page 7, line 196) discussion should be deleted.
Asn: Correction has been done

Q7. (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”.
Asn: Correction has been done

Q8. (Page 9, line 241) the blank should be deleted between “levels” and “generated”.
Asn: Correction has been done
Reviewer: WAN KYU EO

Q1. In this article, the majority of the experiments were done with LH-60 cell line, and I think it better to delete the small portion of results from PC-3 cell line.
Asn: Correction has been done

Q2. I think it better to focus on the anti-cancer effect of Annona muricata in ‘introduction’ and ‘discussion’ section while touching a little bit on the efficacy of them in non-cancer conditions.
Asn: Correction has been done

Q3. I recommend using the same nomenclature to express the same one: for example, twigs vs. barks vs stem barks, phenol vs. polyphenol, leaf vs. leaves.
Asn: Correction has been done

Q4. There are many abbreviations especially in the abstract (like ROS), main document (Figs), and figures (like F, R, and E in Figures 3~5) without explanation of the meaning.
Q5. Statistical methods and software were not shown.

Q6. The results of polyphenols, flavonoids and flavonols were described altogether erroneously under the heading of ‘phenolic contents of A. muricata’

Q7. In ‘Results’ section, (table 1) needs to be corrected as (table 2) when describing IC50.

Q8. In ‘Results’ section there are too many errors in description of the results: ‘50 ug/mL (4.08% for root)’ needs to be corrected as ‘50 ug/mL (4.08% for leaves)’; ‘100 ug/mL (3.07% for leaves)’ needs to be corrected as ‘100 ug/mL (3.07% for stem barks)’; ‘the roots extract…mitochondrial membrane (21%)’ needs to be corrected as ‘the stem barks extract…mitochondrial membrane (21%)’

Q9. In recent studies, the anti-cancer effect of Annona muricata has been reported with various cell line including HCT-116 and HT-29 cancer cell, A549 cell, and pancreatic cancer cells, and it is recommended to introduce more previously reports in ‘Introduction’ or ‘Discussion’ section, and compare the results of current article with previous one.

Q10. In this article, ‘Results and discussion’ section is followed by ‘Discussion’ section again, and I think it not natural.