Reviewer’s report

Title: Anti-cancer effect of dung beetle glycosaminoglycans on melanoma

Version: 1 Date: 19 Aug 2018

Reviewer: Kisung Ko

Reviewer's report:

p2

lines 22-29 Please rewrite the methods sentences.

line 36 XTT full name please

p6

line 2 Topics should be bold

line 44 and should be removed or not???

p7

line 5 Purified should be removed.

p13

line 4 Please described the meaning of data. Without explanation about the absorbance value, the data are not meaningful. The description is too short to understand about the Figure 1.

Table1

Usually volume (cm3) should be investigated and measured. Do you have any volume data? Please confirm!!

You have to indicate what the * means!! Statistically significant? At what p value??
Tables 2 and 3. These tables should be supplementary data.

Table 4
The authors should in detail describe the data of Table 4.

Figure 7. It seems to me the glycosylation analysis data are not properly discussed. Please describe what the meaning of each different glycan profiles is on anti-cancer activities.

Figure 8. Describe the figure 8 more in detail in legend. The legend is too short to understand the figure 8.

Figure 1 Please describe the * meaning!!
What's the meaning of high absorbance value on anti-cancer activities.
What is the XTT absorbance?? It's very strange.

Figure 2. Sacrifice for serum ….. is command sentence!!! Please rewrite the sentence. For instance Sacrificed……..

Figure 3. Survival proportion?? Is this %?? Please include the unit!!

Figure 6. Please include error bars!!
Figure 7. The resolution is too low to read the word!!! Please replace them with better figures!!!

Figure 8. Please describe the figure more in detail in legend.

Overall.... authors should have edited the manuscript with a professional English editor.

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

No

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.

Yes

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 recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Not suitable for publication unless extensively edited

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

None

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons
CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal