Reviewer's report

Title: Germinated brown rice and its Bioactives modulates the activity of uterine cells in Oophrectomized rats as evidenced by gross, cyto-histological and immunohistochemical changes

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Reviewer: Zilai Wang

Reviewer's report:

In this manuscript the authors attempted to examine the effect of germinated brown rice and several of its derivatives on the reproductive organs using oophorectomized rats. The topic is interesting and their aims were well defined. However there are many flaws of this manuscript that make it unacceptable to publish in its current form.

Here are my major concerns:

1. The background/introduction was poorly organized. The thoughts were shuffled around especially at the end of first paragraph and second paragraph. I suppose the authors wanted to convey the following points: a, the shifting of trend from drugs to nutraceutical and natural products in ailment control; b, GBR is one of this trend that has been extensively studied because of all the potential benefits it offers…; c, what's bad for menopause and how it was treated traditionally and what are the problems, and why GBR can be a much better alternative; d, the aim of this study and why those derivatives have become the focus; and e, a short summary of your findings.

2. Essential details of the methods were missing. For example, how the GBR and its derivatives were prepared or acquired, in what form they were being delivered and what is the route of delivery and what is the frequency?

3. Concern of data set:

   table 1, OVX+GBR, OVX+ASG, OVX+ORZ and OVX+GABA showed almost the same activities, and all four treated groups showed complete rescue when compared to sham and OVX group. It’s hard to convince a reader that four different bioactive behave the same given that their action of mechanisms are very likely different. Or this has to be discussed in the discussion section.

   Figure 1, seemed different magnification has been used when acquired the images (compare “c” cells in H to others, and “E” cells in A to others).

   Figure 2 and 3, both pictures are of low resolution and it’s hard to appreciate their details and hence make judgments.

4. The writing is not smooth enough. A lot of editing will be needed.

   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