Review of: "Anti-metastasis After Bee Venom and Melittin by Upregulation of BRMS1 and DRG1 Genes, With Downregulation of WNT7B in Breast Cancer Cells"

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Potential competing interests: No potential competing interests to declare.

The authors report the effects of bee venom and isolated melittin against triple negative breast cancer cells in comparison to MCF10A normal breast tissue. The methodology is well established, in accordance with the main objectives and is capable of answering the questions raised by the authors. However, major English language errors impair the comprehension and even cause erroneous understanding of the sentences. Therefore, a major review of English is necessary.

Furthermore, some other points were raised:

1. The Experimental Section could be better separated and organized. The treatment concentrations can appear in their own assays. Also, the step-by-step protocol of the MTT assay and RNA isolation is unnecessary, so I suggest to summarize these topics;
2. Figure 1 is identified as Figure 3. Cisplatin IC50 is 25ug/mL for MCF10A, and in the text, it says 12ug/mL;
3. Regarding the MTT assay, where is the cell viability graphic? Were the treatments toxic? By how much? Statistics are necessary also;
4. Regarding the Wound Healing assay, how the results are explained is very confusing. Statistical differences must be indicated in the graphics;
5. Regarding qPCR analysis, the results are very very very confusing. Maybe it would be better to discuss the results right after mentioning them and also separate results by cell line;
6. Figure 6 is unreadable;
7. What does the effect of the treatments in MCF10A mean? What does this have to do with the effect in MDA? The relation between these results must be explored;
8. WNT7B was not decreased in MCF10A after bee venom treatment;
9. Discussion regarding qPCR results is poor and must be better correlated within the same cell line and between cell lines;
10. Figures' subtitles must be rewritten with more complete information regarding statistical tests. Statistic differences must be indicated in all graphs.