Reviewer's report

Title: Piper betle shows antioxidant activities, inhibits MCF-7 cell proliferation and increases activities of catalase and superoxide dismutase

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Reviewer: Gülin Gurhan Renda

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Minor Essential Revisions

The manuscript describes the antioxidant activity of the leaves of Piper betle and its inhibitory effect on the proliferation of the breast cancer cell line. The experimental work seems to be solid. Further studies on the extracts can be performed based on the activity results. However, there is a question for the manuscript:

It is not clear in the text the reason for the choice of standards; catechin, morin and quercetin. Also there can be any other flavonoids, have antioxidant activity in the plant. For example there is a similar publication below, about Piper betle and it is shown that plants extract have excellent naringenin content.


There is a small grammar mistake at the paragraph;

“There are five different forms of GPx in humans, however, GPx1 and 4 are more relevant to breast ….”

It should be start as “There are…”

Level of interest: An article whose findings are important to those with closely related research interests

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.