

Review of: "An Investigation of The Phytochemical Richness of Fresh Musa Paradisiaca L. (Plantain) Stem Juice and Its Anticonvulsant Potential on Pentylenetetrazole (Ptz)-Challenged Rats"

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Potential competing interests: No potential competing interests to declare.

This experiment demonstrated that *Musa paradisiaca* extract can delay the onset of convulsions in PTN-induced mice; as a result, it may be a natural remedy for the management of epilepsy. The antiepileptic property of *Musa paradisiaca* was credited to flavonoids, which were found in moderate concentration when the phytochemicals were estimated using less advanced methods.

- The work is relevant and interesting for the development of herbal medicine.
- It is original and provided preliminary scientific information on the potency of *Musa paradisiaca* for the management of epilepsy.
- The experiment is simple and has elements of replicability.
- The manuscript is well-written because the text is clear and easy to read.
- The conclusion is consistent with the evidence presented.
- The outcome of the research concurred with previous investigations on the antiepileptic potency of other medicinal plants.
- The data in the tables added clarity and ease of readability to the manuscript.

Probable corrections

- **The second most abundant phytochemical in the results presented was alkaloids (5.54 ± 0.98), but the authors claimed it is flavonoids (4.27 ± 1.23). Can this be looked into?**
- ***Adewumi et al. may not be the right source for this data. It would be fine if the right authors are cited***.....Each year, over 50 million people are affected by seizure disorder globally, out of which over 80% live in Sub-Saharan Africa and Asia, where the standard of living is very low (Adewumi *et al.*, 2020).
- ***Authors should indicate the sex of the mice***.....eighteen (18) adult albino mice (18-26 g).
- **Can the authors provide a brief calculation on 4 mg/kg of Diazepam and 85 mg/kg b.w., i.p., administered to the animals?**
- **It would be fine for the authors to emphasize further research to ascertain the antiepileptic compounds in MP and establish whether they are acting alone or in synergy.**

