

# 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.

## Reviewer Specific comments

**Comment: 1.** How do you correlate the national use of drug design to natural products as alternative medicine?

**Comment: 2.** How was the author able to conclude that this plant extract has a significant impact on those tests? These are very preliminary tests. Apart from that, the author should do more behavioural tests along with computational and cellular work.

**Comment: 3.** Are the authors able to indicate which substance(s) is responsible for each specific action? This should be added and discussed in the results and discussion.

**Comment: 4.** In the discussion, the author demonstrated “**In the preliminary studies involving the phytochemical screening, the phenolic content, which is relatively more abundant, indicates that MP stem juice is a potent anticonvulsant. Moreover, flavonoids, which are the second most abundant in the stem juice, have proven to be highly phenolic and have demonstrated strong anticonvulsant properties in other medicinal plants**” Why do phenolics and flavonoids act as potent anticonvulsant agents? What is the biochemical reason behind that? The author should explain in detail with proper reference.

**Comment: 5.** The author should work more on the discussion section. They did not explain the mechanism and how their dose will exactly work to alleviate seizures at the cellular level.

**Comment: 6.** Revise the full article for grammatical and spelling errors.