

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

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Potential competing interests: No potential competing interests to declare.

The paper is overall written well; however, I have some comments to be addressed before acceptance.

- The abstract provides a clear structure and introduction to the research, making it easy to follow.
- The use of headings for each section is effective in guiding the reader through the research methods and findings.

The introduction provides a solid background on the importance of medicinal plants as a source of bioactive compounds, setting the stage for the research question. Add some information on the importance of medicinal plants in the introduction section; Cite these references: Saleem, H., I. Ahmad, G. Zengin, F. M. Mahomoodally, K.-U.-. Rehman Khan, H. M. Ahsan, S. A. Z. Abidin and N. Ahemad (2020). "Comparative secondary metabolites profiling and biological activities of aerial, stem and root parts of *Salvadora oleoides* decne (Salvadoraceae)." [Natural product research](#) **34**(23): 3373-3377.

Saleem, H., U. Khurshid, S. Anwar, M. I. Tousif, F. M. Mahomoodally and N. Ahemad (2022). "Buxus papillosa CK Schneid.: A comprehensive review on traditional uses, botany, phytochemistry, pharmacology, and toxicology." [Biocatalysis and Agricultural Biotechnology](#): 102547.

Saleem, H., U. Khurshid, M. I. Tousif, S. Anwar, N. A. A. Ali, M. F. Mahomoodally and N. Ahemad (2022). "A comprehensive review on the botany, traditional uses, phytochemistry, pharmacology and toxicity of *Anagallis arvensis* (L.): A wild edible medicinal food plant." [Food Bioscience](#): 102328.

Saleem, H., M. Sarfraz, K. M. Khan, M. A. Anwar, G. Zengin, I. Ahmad, S.-U. Khan, M. F. Mahomoodally and N. Ahemad (2020). "UHPLC-MS phytochemical profiling, biological propensities and in-silico studies of *Alhagi maurorum* roots: a medicinal herb with multifunctional properties." [Drug development and industrial pharmacy](#) **46**(5): 861-868.

Saleem, H., A. Yaqub, R. Rafique, T. Ali Chohan, D.-e.-S. Malik, M. I. Tousif, U. Khurshid, N. Ahemad, R. Ramasubburayan and K. R. Rengasamy (2023). "Nutritional and medicinal plants as potential sources of enzyme inhibitors toward the bioactive functional foods: an updated review." [Critical reviews in food science and nutrition](#) 1-24.

- However, it could be more explicit in highlighting the specific gap in the literature that this research aims to address.
- The methodology section is detailed and well-organized, providing insight into the extraction process and

phytochemical analysis. This is crucial for replication and understanding the reliability of the results.

- It would be helpful to include information about sample size and the specific techniques used for extraction and analysis.
- The presentation of results is clear, with both text and visual representations (figures and tables) to support the findings.
- It's important to mention the significance level of the results and any statistical analyses conducted, particularly for antimicrobial activity.
- The abstract could benefit from a discussion section that interprets the results and their practical implications more explicitly. What do these findings mean for the field of seaweed-based products or biomedicine?
- Suggest including a brief statement of the limitations of the study, which is standard in research abstracts.
- Encourage discussing future research directions, especially if this study leads to potential applications or further questions.