Review of: "Phytochemical Contents, GC-MS Analysis and Hepatoprotective Effect of the Methanol Leaf Extract of Camelliasinensis (L.) Kuntze on Paracetamol-Induced Liver Injury in Wistar Rats"

Adekunle Rowaiye[1]

1 Federal Ministry of Science and Technology, Nigeria

Potential competing interests: No potential competing interests to declare.

Good and well-written work. Camellia sinensis, commonly known as green tea, is used for its antioxidant properties and to treat diseases like cancer. This study assessed the phytochemicals and hepatoprotective activity of its leaf extract in Wistar rats, revealing 18 bioactive compounds and significant liver protection without toxicity at high doses. The findings support the safety and efficacy of C. sinensis leaf extract as a traditional remedy for liver disease.

The authors can improve on the following:

Abstract

- Authors should be more specific about the gap or problem the study aims to address. A brief problem statement on cancer.
- The aim of the study should be stated more explicitly.

Introduction

- Mention specific bioactive compounds or mechanisms of action that make plants like *Camellia sinensis* relevant in treating the health conditions mentioned.
- Mention specific studies in which Camellia sinensis was used.
- State the full meaning of GC-MS.

Methods

- Provide the specific methods (with relevant citations) used for each phytochemical class tested, ensuring clarity on the compounds detected.
- Provide the full meaning of OECD.

Discussion

- Mention the specific mechanisms by which these compounds exert their hepatoprotective effects. Describe in more mechanistic detail how the identified compounds evoke biological activities.

Conclusion

- "Further research" Outline specific types of studies or methodologies that should be pursued, such as isolation and characterization of active compounds, in vitro and in vivo testing, or mechanistic studies.