

# 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"

Isbah Ashfaq

Potential competing interests: No potential competing interests to declare.

## Review for Article by Qeios

Phytochemical Contents, GC-MS Analysis and Hepatoprotective Effect of the Methanol Leaf Extract of Camellia sinensis (L.) Kuntze on Paracetamol-Induced Liver Injury in Wistar Rats (V2)

Dear Author(s),

I appreciate the effort and research you have put into this manuscript. However, I recommend not publishing this version. Please review and address the following suggestions to meet publication standards.

**Title:** The current title is comprehensive but could be more impactful if streamlined. The specific mention of 'GC-MS' might limit the perceived scope. I recommend using a broader term such as 'Chemical Characterization', which encompasses a range of analytical techniques and highlights the novel aspects of your research more effectively.

**Abstract:** The **background and objectives** are not clearly articulated. **Methods:** In the manuscript, ten methods are used, but the abstract only mentions two. I suggest that the abstract precisely list key methods such as characterization..., establishment of the rat model, serum analysis, and histology to provide a more comprehensive overview. **Results:** "The acute toxicity did not produce any sign of toxicity at a dose of 5,000 mg/kg of extract." Could you specify what parameters were monitored to determine the absence of toxicity? For instance, were behavioral changes, physiological responses, or biochemical markers assessed?

## Main Text

### Introduction:

1. Please include the common name of *C. sinensis* in the introduction, along with a relevant citation for verification.

### Method:

1. "The heading 'Acute oral toxicity study of *C. sinensis* methanol leaf extract in rats' is unclear, and it appears that the corresponding results are not presented.

**Results:**

1. Please revise Fig 2(a): there is a comma instead of a decimal point in the equation.
2. The description of the serum analysis lacks detail. It would be more effective to present the results in graph form to enhance clarity and facilitate easier interpretation of the data.
3. **Table 5:** Please list the names of the groups from I to V under 'Parameters' and move any additional details to the caption.
4. **Fig 3:** The histological images provided are blurred and do not clearly depict the necessary details. Please consider replacing them with higher resolution images that offer clearer visualization.

**Recommendations:**

1. Assess oxidative stress and anti-inflammatory markers to further support the findings.
2. Consider using ELISA or mRNA expression analysis for additional evidence.
3. Please rewrite the manuscript to enhance clarity and overall understanding.