

Review of: "Toxicity of Olea africana in Artemia Salina and Mice"

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Potential competing interests: No potential competing interests to declare.

This manuscript presents data on toxicity of Olea Africana in Artemia Salina and Mice. The study should be considered several issues.

General:

The study would be interesting but unfortunately similar results have already been published on Brine shrimp *B. N. Meyer, N. R. Ferrigni, J. E. Putnam, et al., "Brine shrimp: a convenient general bioassay for active plant constituents," Planta medica, vol. 45, no. 05, pp. 31–34, 1982.*

1- The introduction needs to be added with paragraphs.

2- You mentioned in the article that 200 milligrams (0.2gm) of the powdered plant were used to produce the alcoholic extract. This alcoholic extract was used in the three toxicity experiments, and the amount extracted was not mentioned. Is the amount of the extract sufficient to conduct the three experiments, especially since there is an experiment that extends to 28 days!?

3- It is necessary to identify the solvent in which the extract is dissolved.

4- The Brine shrimp cytotoxicity assay should be described in detail. The 3rd concentration of the extract should be corrected.

5- Mice weights should be mentioned.

6- In 2.8, 2.9: It is necessary to mention the instruments that are utilized for the determination of hematological and biochemical parameters.

7- In the data analysis section.

1- You mentioned using the mean with standard error in the data analysis but the results of the Brine shrimp assay and acute toxicity assay in mice do not contain the standard error.

2- You mentioned that the analysis used the two-way ANOVA method, so what was the second variable used in the analysis to find out its effect on the dependent variable? Please clarify.

8- Results:

1. In table 2, the sodium and potassium results should be reviewed for the 100 mg/kg dose and also, the sodium for 600 mg/kg dose (The SD is too high).
2. Results for GGT and ALP were not mentioned in the text.
3. Rearrange the biochemical parameters as in Material and Methods.

9- Discussion:

The data should be interpreted as having no effect on albumin, protein, or bilirubin levels despite the increase in ALT, AST, Tbil, and GGT concentrations.

With my best wishes

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