

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

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Potential competing interests: No potential competing interests to declare.

## Comments to authors:

- Suggestion: The scientific name *Olea africana* should be written in italics.
- Feedback: The abstract is well-written; however, please include 2 - 3 lines discussing the importance of the study.
- Recommendation: Provide identification details of *Olea africana* collected in the manuscript (including the collector's name). Additionally, include the herbarium number of plant specimens in materials section 2.2.
- Request: Kindly mention the percentage yield obtained in section 2.3.
- Clarification: Please specify the company name and location from where Brine shrimp eggs (Artemio® mix) were purchased. Also, state the number of generations for which the mice were acclimatized before conducting the experiments.
- Inquiry: Could the authors elaborate on how the dose was optimized? Did they conduct any preliminary screening or dose optimization study before proceeding with the main experiments?
- Information: If biochemical parameters were measured using kits, please provide the details of the kit numbers and manufacturer's information in the methods section.
- Suggestion: Consider presenting the results in paragraph or subsection form rather than in a district line format for better readability and user-friendliness.
- Revision: In the discussion part, consider replacing old references with more recent ones if available.
- Expansion: Elaborate on the conclusion with a few additional sentences to provide a comprehensive summary of the findings.

## General comments:

- The increased average levels of ALT, AST, ALP, and GGT in mice administered with the extract indicate the possibility of liver damage. The study sought to identify specific histopathological alterations observed in the liver and kidney. These observed changes, along with the elevated enzyme levels, provide substantial evidence supporting the conclusions regarding significant toxic concerns.
- The research findings indicate a notable rise in WBC levels in animals treated with the extract, implying an immune response. Considering the potential immune challenge observed, could this effect raise concerns regarding the extract's suitability for medicinal applications?

