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

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Potential competing interests: No potential competing interests to declare.

The manuscript titled "Toxicity of *Olea africana* in Artemia Salina and Mice" is now reviewed.

This manuscript investigates the toxicity of *Olea africana*, an important African plant species, using brine shrimp (*Artemia salina*) and mouse models. The objective was to experimentally evaluate the plant's toxicity and potential medicinal applications.

Novelty and importance:

- Reports on the toxicity testing of *O. africana* for the first time using modern in vivo and in vitro methods.
- Provides valuable data to guide the safe medicinal use and further study of this traditionally used plant species.

Experimental design:

- Brine shrimp lethality testing was appropriately performed to screen for toxicity.
- Mouse studies with different doses were well-designed to evaluate toxicity at the organismal level.
- Multiple biological replicates were included to ensure statistical rigor.

Results:

- Clear presentation of LC_{50} and other toxicity values from brine shrimp studies.
- Dose-dependent toxicity effects were convincingly shown in mice.
- Clinical symptoms and organ toxicities were methodically reported.

Language:

- Written in clear English with no major grammatical errors.
- Technical terms were adequately defined to be understandable to specialist and general readers.

In summary, this study addresses an important question about an underexplored African plant species using well-designed methods. The results provide valuable new data on its toxicity and lay the groundwork for further investigations.

I recommend acceptance for publication pending minor language revisions.