

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

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Potential competing interests: No potential competing interests to declare.

Both in the paragraph and throughout the text, it is interesting to place units such as: Example: mg. kg⁻¹ and not mg/kg.

It would be important to rewrite and complement this final section of the abstract: As a result, caution should be exercised when using the extract.

In the first part of the background: For the most part, herbal medicines have been regarded as safe and effective alternatives to conventional medicine [1][2]. The perceived lack of side effects has been the strongest selling point of herbal medicine [3][4][5]. This misconception, however, has led to the indiscriminate use of herbal medicine formulations [6][7][8], the sentences are quite short. It could combine at least 2 sentences into one. Check it out.

There was no connection between the end of the first background paragraph, which was talking about the need to investigate the oral toxicity of such formulations, and the beginning of the second background paragraph, which already starts talking about the tree. Rewrite or make a connection between the two paragraphs.

Throughout the text, check that there are many extremely short sentences, which can be combined into two sentences or more. To check.

Why was the ethanolic extract chosen? Could it have been another solvent such as methanol? Or even an ethanol/water solvent fraction?

In the methodology, I verified that the time of stirring the powder with the solvent was 3 days. Why choose this period? Isn't it extremely long? Have other conditions been tested?

In this excerpt: The mean organ-to-body weight ratio and the percentage mean weight gain of treatment and control group mice were calculated. It is interesting to show readers how this calculation was performed. Present the equation and describe it throughout the article.

In topic 2.9, it was reported that centrifugation took place at 3000 r/min. How was this parameter chosen? Did you have any methodology? If so, it is important to mention it throughout the article.

In the results and discussions, several parties report that the average kidney-to-body weight ratio was not significantly different. Was there any reason for that?

In this excerpt: Meyer and Clarkson's criteria suggest that this extract may be considered non-toxic. Why can they carry out this consideration? It would be interesting to demonstrate in the article why.

In this excerpt: There was no significant difference between the mean weight gain of control and treatment group animals suggesting that the extract does not alter metabolism in mice. Previous research has shown that the mean organ-to-body weight ratio in experimental animals is a good predictor of toxicity [29][31]. No significant differences were observed in the mean organ body weight ratios of control and treatment group mice in this study. Even though the section is being discussed, it is important to show the value that there was no significant difference, thus demonstrating why it is suggested that the extract does not alter the metabolism in mice. In addition, it portrayed that previous research has shown that the average organ-body weight ratio in experimental animals is a good predictor of toxicity. But how did this happen? It could be better explored in the article.

It would be important to improve this excerpt: However, it is not clear why this effect was not dose-dependent.

It is important to rewrite the conclusion. Only one result was presented, it should have a better explanation, a better discussion, something to be presented.