



Paper: “Anticonvulsant Activity of Hydroalcoholic Extract of *Ageratum Conyzoides* L. (Asteraceae) in Mice”

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Peer review:

Reviewer 1: Joseph, Oyepata Simeon, Bingham University/Nigeria

Reviewer 2: Hanan Abd Al-Hay Al-Ashaal, National Research Centre, Egypt

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Reviewer Name: Hanan Abd Al-Hay Al-Ashaal	Email:
University/Country: National Research Centre, Egypt	
Date Manuscript Received: 14 Apr 2020	Date Review Report Submitted: 23 Apr 2020
Manuscript Title: ANTICONVULSANT ACTIVITY OF HYDROALCOHOLIC EXTRACT OF <i>Ageratum conyzoides</i> L. (ASTERACEAE) IN MICE	
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<i>Questions</i>	<i>Rating Result</i> [Poor] 1-5 [Excellent]
1. The title is clear and it is adequate to the content of the article.	5
<i>The title is appropriate</i>	

2. The abstract clearly presents objects, methods and results.	4
<i>The abstract is adequate</i>	
3. There are few grammatical errors and spelling mistakes in this article.	4
<i>The lower and upper case letters should be revised</i>	
4. The study methods are explained clearly.	4
<i>The phytochemical study has to be explained in more details</i>	
5. The body of the paper is clear and does not contain errors.	3.5
<i>Fig.2 has to be checked. The discussion has to be enriched</i>	
6. The conclusions or summary are accurate and supported by the content.	3.5
<i>The conclusion is better to be objective ad clarify in brief the effect of active phytochemicals</i>	
7. The references are comprehensive and appropriate.	3.5
<i>The references have to be supported by updated ones</i>	

Overall Recommendation(mark an X with your recommendation) :

Accepted, no revision needed	
Accepted, minor revision needed	
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Comments and Suggestions to the Author(s):

The manuscript could be accepted after taking in consideration these comments:

Introduction

- Lower and upper case letters should be considered as: Glutamate, (ASTERACEAE), ...
- The references have to be supported by updated ones
- Check these remarks all over the text.
- "An ethnopharmacological survey conducted for this study among the population of Andasibe (Madagascar) revealed its use to prevent seizure

crisis. Decoction of the whole plant is regularly given to children who have convulsion problem". Add reference.

MATERIALS AND METHODS

- Plant identification by specialist botanist should be recorded.
- The company and specifications of the chemicals and instruments that were used have to be mentioned.

Experiment animals

- Name the standard guidance for care and use of laboratory animals that was used.

Extraction and phytochemical screening

- Mention in brief the experimental analysis and methods of identification that were applied.

RESULTS

- Fig.2: Y axis has to be defined.
- reduces the duration of clonic convulsion, from 36.04 ± 3.46 s in the control group to 31.33 ± 0.88 , 4.08 ± 1.02 and 10.07 ± 1.31 s respectively in the treated animals
- Check the written numerals with the drawn columns.
- The significance of the effect of each dose should be recorded and may be specify with stars or symbols (significant or non significant comparing to control group). This is regarding all figures.

Discussion

- Write this heading in the same manner as other headings.
- The discussion has to be complemented. This is important. The authors should record in details the correlation between the measured anticonvulsant activity and the identified phytochemical groups found in the plant and that surveyed from the literature that might be responsible of anticonvulsant effect, inhibiting glutamate release or stimulating GABAetc documented with references as well as the comparison with the reported anticonvulsant activities concerning g this plant (if there is any)versus the measured ones.

Comments and Suggestions to the Editors Only:

The topic is interesting and the manuscript could be accepted after taking in consideration the former comments.