Reviewer's report

Title: Antinociceptive activity of methanolic extract of Muntingia calabura leaves: Further elucidation of the possible mechanisms

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Reviewer: Niraldo Paulino

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Comments about

Title: Antinociceptive activity of methanolic extract of Muntingia calabura leaves: Further elucidation of the possible mechanisms

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The authors present additional results previously published: Antinociceptive Activity of Methanol Extract of Muntingia calabura Leaves and the Mechanisms of Action Involved, in another journals.

1. Abstract

In abstract, the authors present the description of the methodological work properly, represent the numerical results obtained in experiments, but not demonstrate the statistical method used for the evaluation of experimental data.

2. Introduction

The authors present a review with references to antinociceptive activity of Muntingia calabura, however there are at least 06 other references that could complement the literature review of the subject in research.

3. Matherial and methods

The authors present the experimental methodology adequately

Preparation of extract

The authors used the correct methodology in sample preparation.

Shown the number of protocol to Ethical committee for use of animals.
4. Results

I suggest show the chemical composition of extract in the first figure in the results.

Graphs should show the units of dose applied to the animals

5. Discussion

The discussion and conclusions demonstrate adequately that treatment with Muntingia calabura can produce antinociceptive activity and show that activity could be mediated by inhibition of PKC pathway and bradykinin receptor as well as through the activation of K+ channels, adrenergic, serotonergic and adenosinergic receptor systems.

6. Reference

References are actual and contribute to discussion.

Declaration of competing interests:

I declare that I have no competing interests'