Reviewer's report

Title: Antioxidant and relaxant activity of fractions of crude methanol extract and essential oil of Artemisia macrocephala Jacquem.

Version: 1 Date: 8 October 2012

Reviewer: Ajay Sharma

Reviewer's report:

Major revisions:

1. Kindly include proper abbreviation for different extracts from A. macrocephala.
2. Kindly include Animal Ethical Committee Permission number.
3. Some grammatical and typological errors were found.
4. How you selected different concentrations for determining antioxidant activity. Even in some extracts it is not significantly increasing with concentrations.
5. Kindly apply advanced statistical tools for determining P value also to confirm whether the results are statistically significant or not.
6. Why the authors not tried lower concentration of extracts for determining antioxidant activity because in some extracts even 40 mg/ml concentration inhibiting more than 50% of DPPH radical.
7. What was the blank and control in DPPH model.
8. Kindly change Fig. 3 in proper form.
9. Whether Fig.3 necessary to include? Kindly clear what does the means of including Fig. 3.
10. Use hr in place of hour.
11. Kindly explain the probable mechanism of antispasmodic action of samples tested.
12. Replace EC50 with EC50.
13. Can you specify phytochemical profile of different extracts separately? Kindly include the reference from where you have referred the test procedure.
14. Which solvent was used to prepare DPPH solution. Give more details of experimental procedure.
15. What would be the probable mechanism of antioxidant activity.
16. What would be the scope of your work. Where it will be applicable.
17. Title of the paper is not suitable. The information regarding essential oil is completely missing in the manuscript.

Level of interest: An article of importance in its field
Quality of written English: Not suitable for publication unless extensively edited

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interests.