Author's response to reviews

Title: A Study of Antioxidant Activity, Enzymatic Inhibition and In vitro Toxicity of Selected Traditional Sudanese Plants with Anti-diabetic Potential

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Version: 3
Date: 25 February 2014

Author's response to reviews: see over
Author’s response to reviewers

Title: A Study of Antioxidant Activity, Enzymatic Inhibition and In vitro Toxicity of Selected Traditional Sudanese Plants with Anti-diabetic Potential

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Author’s response to reviewers: see over
Thank you for consideration of our manuscript for publication in your journal. We have reviewed the above manuscript according to your reviewer’s comments.

**Reviewer's report**

**Title:** A Study of Antioxidant Activity, Enzymatic Inhibition and In vitro Toxicity of Selected Traditional Sudanese Plants with Anti-diabetic Potential

**Version:** 2

**Date:** 15 January 2014

**Reviewer:** Mohammad Ali Ebrahimzadeh

**Reviewer's report:**

Manuscript: “A Study of Antioxidant Activity, Enzymatic Inhibition and In vitro Toxicity of Selected Traditional Sudanese Plants with Anti-diabetic Potential”

It is a good manuscript and has some interesting results. I recommend it for publication. It needs only some minor correction:

1. Scientific name of plants should be italic throughout the text
   - Scientific name of plants were rewrote into italic throughout the text
2. Please make use of multiply sign (×) (via insert, symbol) instead of star (*) in equations.
   - Multiply sign (×) is used instead of star (*) in the equations.
3. Abbreviation of DPPH is wrong.
   - DPPH: 2,2 di (4-tert-octylphenyl)-1-picryl-hydrazyl stable free radical
4. In Table 2, units of each column should be mentioned.
   - In Table 2 units are written now
Reviewer's report
Title: A Study of Antioxidant Activity, Enzymatic Inhibition and In vitro Toxicity of Selected Traditional Sudanese Plants with Anti-diabetic Potential
Version: 2 Date: 16 January 2014
Reviewer: Amro Amara

Reviewer's report:
The paper could be accepted after minor revision.
Some corrections have been made in the text.
Level of interest: An article whose findings are important to those with closely related research interests
Quality of written English: Acceptable
Statistical review: No, the manuscript does not need to be seen by a statistician.

All corrections are incorporated in the revised manuscript

AR Grade: The standard Mallinckrodt grade of analytical reagents; it means that the reagent is suitable for use in laboratory and batch to batch variation doesn't exist in this material so variation in result is not because of using for example two bottle of a chemicals.
Reviewer's report

Title: A Study of Antioxidant Activity, Enzymatic Inhibition and In vitro Toxicity of Selected Traditional Sudanese Plants with Anti-diabetic Potential

Version: 2
Date: 19 January 2014
Reviewer: Sarangapani Sreelatha

Reviewer's report:

1. The manuscript describes the antidiabetic activity of Medicinal plants. On what basis are these medicinal plants selected?
   The plants were selected based on their traditional use for treating DM in Sudan.

2. Why in all the plants some are tested for leaves, some are tested for fruit etc? This creates confusion and decides this to be a random study.
   We studied the parts traditionally used for the treatment of DM.

3. There is no systematic analysis of the solvents tested for the extracts. With only enzyme inhibition the antidiabetic activity of the plants can be revealed?
   This is a preliminary study of these plants and glycogen phosphorylase inhibition method has been used as one method for treating DM. Since glucose production in the liver has been shown to increase in type 2 diabetes patients, inhibiting the release of glucose from the liver’s glycogen’s supplies appears to be a valid approach. It is one of several methods that can be used to investigate the mechanism of glucose production.

4. The results are not well presented and there is no statistical significance.
   The p value of ≤ 0.05 was found to be significant.

5. The discussion also does not substantiate the results obtained.
   Discussion is amended to substantiate the result.

Finally the manuscript needs major corrections by way of presentation and also study.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Not suitable for publication unless extensively edited

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I have no competing interest to be declared.