Reviewer's report

Title: Chemical profile and in vivo hypoglycemic effects of Syzygium jambos, Costus speciosus and Tapeinochilos ananassae plant extracts used as diabetes adjuvants in Puerto Rico

Version: 3
Date: 7 May 2015

Reviewer: Ana E Andreazzi

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Major Compulsory Revisions

1) Authors have presented the phytochemical profiles and hypoglycemic effects of Tapeinochilos ananassae, Costus speciosus and Syzygium jambos performed on two models of type 2 diabetes. Why they did not performed the tests on classical models of type 1 diabetes, for example streptozotocin? On page 4 line 5 authors said ‘Puerto Rico has the highest diabetes rate within the United States’, what kind of diabetes they are specifically considering?

2) Page 7 lines 11 and 21: There are no literature references for "Preparation of decoctions, methanolic and aqueous extracts and dosage calculation".

3) Authors should describe the basal glucose limit considered to include db/db or ob/ob mice as diabetic animals.

4) Page 19 lines 7 and 8: Authors said "Our results show that the plant extracts do not exert adverse effects in db/db mice". It is not clear if they are referring to the present work because they did not performed toxicological and hematological test that are crucial to guarantee the safety of the plants extract.

5) Page 30 line 13: Authors should describe the meaning of the (* asterisk shown on graphs) on the legends.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

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.