Reviewer's report

Title: Salvia libanotica improves glycemia and serum lipid profile in rats fed a high fat diet

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Reviewer: Balaji Meriga

Reviewer's report:

COMMENTS

Manuscript title: Salvia libanotica improves glycemia and serum lipid profile in rats fed a high fat diet.

Maya S Bassil et al performed a piece of work with Salvia libanotica water extract on high fat diet (HFD) induced glyemia and serum lipid profile in Sprague dawley rats. Suggestions mentioned below

Abstract:
1. Abstract is not clear.
3. Why authors are choosing only water extract to evaluate the glycemia, lipemia and body composition lowering activities?
4. What is induction period of obesity with high fat diet?
5. Line no 29, conclusion not clear, need to rewrite?
6. In conclusion authors stated that HFD induced type-2 diabetes complications are reverted. Statement is not clear.

Key words:
1. Line no 32. Plant name should be always in italic.

Introduction
1. Line no 36-37. Insulin resistance......and cardiovascular diseases? What is the difference between insulin resistance and type-2 diabetes?
2. Lengthy introduction about plant? What is the rationale behind choosing the chronic dose?
3. Mention how fat induces diabetes and its related complications?
4. Is this extract/drug is suggestible to humans? In case what is the dose authors can suggest?

Results:
1. How the authors are choosing the three doses of drug?
2. What is toxic dose? Is there any mortality?
3. There was no effect on experimental group-1, entire this work???
4. I didn’t found any intervals in Oral Glucose Tolerance test?
5. What about insulin AUC?
6. There was no boy composition paprameters?
7. Why authors didn’t use any standard drug for comparision?
8. Just based on some lipid profile, how the authors can claim antiatherogenicity activity of the extract?

Discussion:
Discussion is not clear, need to interrelate with results and aims of your study.

Level of interest: An article of limited interest

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