

Review Form 1.7

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| Journal Name: | Journal of Complementary and Alternative Medical Research |
| Manuscript Number: | Ms_JOCAMR_95697 |
| Title of the Manuscript: | ACUTE TOXICITY ASSAY AND ANTI-DIABETIC ACTIVITIES OF SHEMMECO EXTRACT IN <i>Drosophila melanogaster</i> |
| Type of the Article | |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljocamr.com/index.php/JOCAMR/editorial-policy>)

PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
|---|---|---|
| <p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. (Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p> | <p>Yes</p> <p>Yes Yes (Abstract is so much exhausted)</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> | |
| <p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | Yes | |
| <p>Optional/General comments</p> | <p>In this study the acute toxicity assay and anti- diabetic properties of Shemmeco extract were examined The LC50 in this study was conducted using the concentrations: 5mg, 10mg, 25mg, 50mg, 100mg, 250mg, 500mg, 1000mg, 2500mg and 5000mg of extract, each per 10g fly diet. For ten days, <i>Drosophila melanogaster</i> was fed a high diet of sucrose (2.5g/10g diet) to elicit insulin resistance type 2 diabetes. The diabetic flies were treated with 5mg, 10mg, 25mg, 50mg and 250mg per 10g diet each of Shemmeco extract being safe concentrations from result of acute toxicity and 16mg of metformin/10g diet as standard drug. Glucose content significantly elevated ($p < 0.05$) in diabetes untreated compared to control group. Metformin significantly declined ($p < 0.05$) the glucose content of fruit flies treated with 5mg(S1) of Shemmeco extract compared to diabetic untreated and metformin treated. The slight decline of glucose content of fruit flies treated with 5mg (S1) of Shemmeco extract therefore indicates that the extract is promising in the treatment of diabetes type 2 if developed further.</p> <p>Manuscript is very well written, tables and figures are correlated. Recommended for the publication in the journal.</p> | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|--|---|
| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|---|
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| Department, University & Country | Dr. Bhimrao Ambedkar University, India |