Reviewer’s report

Title: The potential of antioxidant-rich Maoberry (Antidesma bunius) extract on fat metabolism in liver tissues of rats fed a high-fat diet

Version: 1 Date: 17 Jun 2019

Reviewer: Rabeta Mohd Salleh

Reviewer's report:

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1. Explain why technique, which do not use animals, have been rejected as unsuitable because couldn't find the in vitro study done before.

2. Background: Sentence no 1, 2, 3 and 4, 6 and 7 please put references.

3. In background try to find the prevalence of obesity and dyslipidemia in Thailand and in the world.

4. The problem statement of this study was too weak.

5. Cooled extracts were centrifuged at 4 2,000 rpm for 30 minutes (HIMAC centrifuge, CR5BB2, HITACHI, Tokyo, Japan). What was the temperature for cooled extracts?

6. Thiobarbituric acid reactive substances assay in serum and liver tissue: full name of the first word MDA.

7. Why refer Baba SA, Malik SA. Determination of total phenolic and flavonoid content, antimicrobial and antioxidant activity of a root extract of Arisaema Jacquemontii Blume? In determination of TFC. Their sample was root. And what was the modification you did?

8. Why refer Baba SA, Malik SA. Determination of total phenolic and flavonoid content, antimicrobial and antioxidant activity of a root extract of Arisaema Jacquemontii Blume? In determination of Total polyphenol contents. Their sample was root. And what was the modification you did?

10. Statistics analysis: Please use SEM


12. Why this happened? The improvement of fat metabolism in liver tissues of rats fed a high-fat diet were observed by in Maoberry extracts treatment group but after 12 weeks of experimental study, no significant difference was observed between three different dosages of Maoberry extract feeding groups and HF. Please explain.

13. Yang et al. (2010) reported that a freeze-dried powder of mulberry fruit consumption showed a significant decrease of liver triglyceride in hyperlipidemia rats but yours did not use freeze-drying.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Not suitable for publication unless extensively edited
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