Reviewer's report

Title: High fat diet fed obese rats responded well to Terminalia paniculata extract in reducing body weights

Version: 2 Date: 3 November 2014

Reviewer: Vicente Lahera

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The manuscript by Mopuri et al reports that supplementation of TPEE reduced body weight, total fat, fat percentage, atherogenic index, blood glucose, insulin, lipid profiles and liver markers in rats fed HFD, in a dose-dependent manner. Expression of Leptin, FAS, PPARgamma, and SREBP-1c were reduced, while Adiponectin and AMPK-1alpha were enhanced in TPEE+HFD-fed rats. TPEE also reduced size of adipocytes. The study is well designed and carried out.

Minor comments

1.- Authors should justify in the Methods section why HFD rats received a 15 g/rat daily instead of ad libitum access to food as control rats. There is no clear rationale to maintain same food intake during the whole 15 weeks experimental period.

2.- Triglycerides levels should be also reported.

3.- It could be illustrative to evaluate PPAR alpha expression.

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.

Declaration of competing interests:

No competing interests in relation to the paper.