Reviewer’s report

**Title:** Water extract from processed Polygonum multiflorum modulate gut microbiota and glucose metabolism on insulin resistant rats

**Version:** 1  **Date:** 04 Jul 2019

**Reviewer:** Alex Joseph

**Reviewer's report:**

The effect of PPM on gut microbiota and glucose metabolism on insulin resistant rats is reported in this paper. The study is well planned, executed and complete. The results of the study is presented well and the manuscript is relatively free from typographical errors. The paper may be accepted for publication after some minor corrections mentioned below.

* Page-7 paragraph-1: In addition to the CON group, the remaining rats were fed a high-fat diet until the end of the experiment. Rats in the CON group and MOD group were given normal saline- The difference between CON group and MOD is not mentioned clearly

* Characteristics and composition of PPM- Page-9: As the composition of PPM has been already established this section cannot be included in the results of present study. Therefore it is suggested that this section may be included in introduction part or discussion

**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.

Yes

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

Yes

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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:

Acceptable

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