Reviewer's report

**Title:** Berberine moderate glucose metabolism through GnRH-GLP-1 and MAPK pathway in intestine

**Version:** 1  **Date:** 1 March 2014

**Reviewer:** Lei Zhang

**Reviewer's report:**

This is an interesting study showed the effects of Berberine on diabetic rat, which may act locally at ileum through altering MAPK and GnRH-GLP-1 pathways. Here is my comments:

Minor Essential Revisions

Background "Over 135 million people are affected...", need a reference to support.

It is better to have mean and SD to present table 4, rather only fold effects. It does not have the number of experiments performed.

Detailed statistic analysis need to be clarified, especially figure 1B and figure 2A.

**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests