Reviewer's report

Title: Polygonum cuspidatum inhibits pancreatic lipase activity and adipogenesis via attenuation of lipid accumulation

Version: 1 Date: 13 August 2013

Reviewer: Isao Matsui-Yuasa

Reviewer's report:

The authors demonstrated that butanol fraction of the ethanol extract of P. cuspidatum exhibited the strongest inhibitory effect on lipase activity and the anti-obesity effect in 3T3-L1 cells.

Major comments,
1. There is no new founding though the manuscript. The authors should show the main active component in POCU1b.
2. The mechanisms for the inhibition of pancreatic lipase activity and the inhibition of adipogenesis are different. The authors should examine the effect of each fraction on adipogenesis.

Minor comments
1. The authors use HCA as positive control. The authors should describe it in full name.

Level of interest: An article of insufficient interest to warrant publication in a scientific/medical journal

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.