Reviewer’s report

Title: Antihyperglycemic and antihyperlipidemic activities of aqueous extract of Hericium erinaceus in experimental diabetic rats

Version: 2 Date: 17 February 2013

Reviewer: Muhsin Konuk

Reviewer’s report:

1. Abstract section, background subsection, the phrase “.., as a traditional Chinese medicine or food,” should be deleted. This expression tends the issue to local concerns. In fact, this mushroom is consumed in nearly half of the world.
2. In the same place, last sentence, the name of the mushroom should start with a capital letter.
3. Key words section, there is nothing to do with insulin resistance in the paper.
4. Introduction section, page 4, it is stated as follow “..but the effect of Hericium erinaceus on hyperglycaemia, hypolipidemia, lipid peroxidation and antioxidant enzymes activities in diabetes have never been examined. “ On the other hand, in the just previous paragraph, page 3 and last paragraph, they mentioned that reference [12] reported the hypolipidemic activity of the mushroom studied. In this case, the authors should clarify the contrast in their statements.
5. In the methods section, first sentence (red colored) and following should be merged and revised to make more sense if it is bought a readily milled etc.
6. In conclusion, page 12, the statement “..in STZ- induced diabetic rats by increasing insulin secretion…” seems to be a bit strange, because the STZ-induced diabetic animals lose their beta-cells in their pancreas and they develop insulin-dependent DM. We expect the authors to clarify this status.
7. In Tables 1 and 2, we need to know the full writing of abbreviations in the Tables. They are written in the text but should be written in the legends of the tables and figures to make sure that anyone should understand the tables or figures even without looking at the text.
8. In figure 3, A and B give the same parameters’ (GSH) values but data are not the same. Please do have a look at carefully..

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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