Reviewer’s report

Title: Hepatoprotection with chloroform extract of Launaea procumbens against CCl4 induced injuries in rat

Version: 1 Date: 26 July 2011

Reviewer: Suh-Ching Yang

Reviewer’s report:

The purpose of the manuscript is to investigate the hepatoprotection effect of Launaea procumbens chloroform extract (LPCE) in CCl4-treated rats. The authors suggested that the compounds (catechin, kaempferol, rutin hyperoside and myricetin) in LPCE displayed the antioxidative properties and reduced CCl4-induced liver injury in rats. After reviewing the manuscript, there are some suggestions as followed:

1. The authors have not been careful in revising the paper before submitting it. For example, in abstract it is mentioned that LPCE was investigated against CCl4-induced pancreatic oxidative damage and high performance liquid ?? (HLPC) was carried out. And, the section of conclusion appears twice in this manuscript. The manuscript might need overall rechecking about the grammar, spellings, punctuations, formatting, etc. for better understanding.

2. Should all pages be numbered?

3. In 2.3. High performance Liquid Chromatography (HPLC) of fractions, was Launaea procumbents or the LPCE used for analysis?

4. Please illustrate the experimental duration (one week?) and the reason of using DMSO as a carrier.

5. In 2.8.2 Superoxide dismutase assay (SOD), it should be the SOD activity in liver not in lung.

6. Please check the Tables.
   (1) The statistical label of liver weight and the relative liver weight (%) in Table2.
   (2) The footnotes of statistical label illustrations in Table3.
   (3) The representation of LPCE in the title should consist in tables.
   (4) The treatment of 3ml/kg CCl4 appears twice in Table6.

7. Please provide detailed description in Figures caption.

8. In 3.3 Launaea procumbens and cholesterol profile, the description and figure of this result seems inconsistent. Please check it.

9. In 3.6 Effects of LPCE on TABRS, GSH, nitrate and AgNORs count, there is no description about H2O2. However, the result of was present in Table5. The glutathione contents were increased by various doses (“decreased” should be deleted).
10. In 3.7 Effect of fractions on DNA damages, what is DMSO group?
11. The discussion section needs to shorten.
12. In the third paragraph of the discussion, what is the SACE group?
13. In the seventh paragraph of the discussion, in the present study, rats were treated with LPCE not different fractions. And the MDA concentration was not analyzed.

**Level of interest:** An article of limited interest

**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.