Author's response to reviews

Title: Effect of melilotus extract on lung injury by upregulating the expression of cannabinoid CB2 receptors in septic rats

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Version: 5 Date: 27 November 2013

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Responses to the comments of Reviewer #1

Major Compulsory Revisions

Under the heading “Sample preparation”, it is mentioned that the authors collected 1.5 ml of blood from rat and then they used 2 ml blood to separate PBMC. How is this possible?
Response: It’s writing errors. We have substituted the “1.5ml” with “5ml” in the revised manuscript.

In the Results and Discussion section:
The first subheading mentions petroleum ether extract, but the content discusses about ethyl acetate extract and table includes data for all the fractions of ethanol extract.
Response: Yes, we mentioned petroleum ether extract in the first subheading. However, we discussed the data for all the fractions of ethanol extract to compare the fractions.

The HPLC chromatograms have very poor resolution.
In Fig. 1, two tracks are labeled as 1.
Response: We have deleted the replicated tracks labeled as 1.

The HPLC chromatogram raises many questions, such as:
• It is not possible that rutin would not show peak at 220 nm and 254 nm.
Response: In the revised manuscript, we performed the peak at 220 and 254 nm.
• Why the authors have quantified only coumarins in all the fractions and not rutin and hyperoside?
Response: We have added the rutin and hyperoside fractions in the revised manuscript.
• Why the HPLC chromatogram of all the fractions have not been shown in the figure?
Response: We have showed all of the fractions in the Figure.
• When rutin has already been injected separately (track 3), why is it injected again in combination with hyperoside?
Response: Actually, we want to observe the results of the combination of rutin and hyperoside together.

Responses to the comments of Reviewer #2
In general authors answered all comments. However I think they were confused about my comment on blood sample collection: If they used rats, it is ok to collect 5 ml of blood sample per animal. If they used mice, it is ok to collect 1.5 ml of blood sample per animal. In the revised manuscript they converted mice to rats and 5 ml to 1.5 ml. I am again confused about the collection of blood sample...
Response: Its written errors. Actually, we collected 5ml of blood sample per rats.
All other corrections and additional experiments are satisfactory.