Author's response to reviews

Title: Up-regulation on Cytochromes P450 in Rat Mediated by Total Alkaloid Extract from Corydalis yanhusuo

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Author's response to reviews: see over
Subject: MS: 1686274756122430
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Dear Sir,

We are extremely thankful for the invaluable comments we have received from reviewers who have generously shared their precious time and professional expertise to help us improve this paper. We are even more grateful to the reviewer for his insightful scientific suggestions to help make the manuscript more suitable for publication in *BMC Complementary and Alternative Medicine*. We have therefore revised the manuscript in keeping with the reviewers’ comments below. Taking all your comments into account, we have revised the manuscript accordingly and labeled them in red color. Our responses to each comment are given one after the other as raised by the reviewers.

Once again thanks for your consideration.

Yours sincerely,

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Reviewer: LIK VOON KIEW

Comments:

1. Discussion: CYP2E1 induction associated with TAE toxicity Paragraph 3 line 6:
   “CYP2E1-mediated metabolism generates reactive oxygen species, such as oxygen and hydroxyl radicals, when these exceed the cellular detoxification systems, it results in oxidative stress with its various pathologic consequences.” Please provide reference for this statement.
   Response: thanks for your advice. We have provide reference for this statement on P 11.

2. Abstract: Results: line 3: an increase in liver CYP2E1 and CYP3A1 enzyme activity...
   Response: thanks for your advice. We have corrected this sentence.
   P2 as follow:
   
   At 30 and 150 mg/kg TAE dosages, an increase in liver CYP2E1 and CYP3A1 enzyme activity were observed.

3. Methods: the comment of the reviewer Dr Shingen Misaka on the statistics methods (i.e. using one way ANOVA eth post-hoc test instead if t-test) should be taken into consideration.
   Response: thanks for your advice.
   
   In the current study, the TAE-treated groups and positive control group were compared with the control group, so independent-sample t-test was used to analyze the differences between the enzyme activities, gene expression values with control values by SPSS 13.0.