Reviewer’s report

Title: Inhibitory effects of Stemona tuberosa on lung inflammation in a subacute cigarette smoke-induced mouse model

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Reviewer: Liang Feng

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In this study, the author had a research on inhibitory effects of Stemona tuberosa on lung inflammation in a subacute cigarette smoke-induced mouse model. In the clinic, Stemona tuberosa is mainly used to treat pulmonary tuberculosis and chronic bronchitis. The innovation of this study is having systematic research on inhibitory effects of Stemona tuberosa on lung inflammation. The bronchoalveolar lavage fluid has been analyzed to evaluate how ST has a protective effect on lung inflammation in a subacute CS-induced mouse model. Additionally, there are many errors in this manuscript:

1. The part of the background need to be concentrated.
2. In the part of “2.2. Preparation of Stemona tuberosa and phytochemical analysis”, how get the result “final ratio of water extracts vs starch is 7:3”. In addition, please provide the reference.
3. In the part of “2.3. A mouse model of subacute CS-induced lung inflammation and drug treatment”, the author need to explain how to confirm the mouse model was successful.
4. In the sentence “Specifically, the levels of TNF-# and IL-6 in the ROFL group were significantly decreased compared with levels in the CS group, but the level of KC only had the tendency to be decreased, as was observed in previous studies [29]”, what does “ROFL” refer to?
5. In the sentence “PAS stain method has been used to distinguish the epithelial thickness of bronchiole in other studies [49-50]”, what does “PAS” refer to?
6. In the part of discussion, the fist paragraph need to be concentrated.
7. The part of discussion need to be modified. The part of discussion should has more discussion and promotion.
8. The part of conclusion need to be strengthened.
9. The manuscript appeared many languages errors, the author need to check carefully and modify them, for example:

“ST was observed to significantly decrease the numbers of total cells, macrophages, neutrophils, and lymphocytes in the BALF of mice that were exposed to CS.” This sentence needs to be rewritten.
“The effects of ST on total cell counts, differential cell counts, and ELISA were similar to those of roflumilast, a recently approved drug for the treatment of antiinflammatory lung diseases such as COPD.” This sentence needs to be rewritten.

“On the other hand, mice treated with roflumilast (ROFL group) and ST (ST group) in all doses showed significant decreases in the number of total inflammatory cells in their BALF.” This sentence needs to be rewritten.

10. The crude drug Stemona tuberosa was used for the insecticide. In animal experiments, the security needs further consideration.

**Level of interest:** An article whose findings are important to those with closely related research interests

**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.