Reviewer's report

Title: Mechanisms Underlying Bronchodilatory and Anti-inflammatory Activities of Polygonatum verticillatum: Augmented by Isolated Molecules

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Reviewer: Mohammad Hossein Boskabady

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Thank you very much for your Email dated 23 November 2012 regarding the review of Manuscript entitled "Mechanisms Underlying Bronchodilatory and Anti-inflammatory Activities of Polygonatum verticillatum: Augmented by Isolated Molecules". In this study, the pharmacological basis for the medicinal use of Polygonatum verticillatum in pulmonary disorders like asthma and inflammation was examined. The results showed that the bronchodilator effect of PR is mediated possibly through the Ca+2 channel blockade, along with the anti-inflammatory activity through dual inhibition of the LOX/COX enzymatic pathways, which may explain the medicinal use of this plant in asthma and inflammation. The study is well designed and results are interesting. I recommend its publication in BMC Complementary and Alternative Medicine after minor revision as follow:

1. While in Abstract it was stated “The bronchodilatory activity was assesses in isolated rabbit tracheal”, In Method section (Experimental animals) it was written “Wistar rats (190-260 g) and adult local rabbits” and in the next par of the Method section it was stated “The trachea was obtained from guinea-pigs”. The authors should clearly indicate which type of animal was used for each purpose.

2. Discussion section is poor and should be improved.

Yours sincerely

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**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.

**Declaration of competing interests:**

I declare that I have no competing interests'