

Peer Review File

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Comment 1: In China, *Valeriana jatamansi* Jones were mainly cultured in where?

Reply 1: Thank you. In China, it is mainly distributed in provinces of Yunnan, Sichuan, Guizhou, Shanxi, etc. and we have added “provinces of Yunnan, Sichuan, Guizhou and Shanxi in China and Himalaya of India” in the text.

Changes in the text: Page 1, line 35 - 36.

Comment 2: These bioactive compounds of *Valeriana jatamansi* Jones come from where, root, stem or leaf?

Reply 2: Thank you. In the manuscript, it was stated that these bioactive compounds of *Valeriana jatamansi* Jones mainly come from the roots/rhizomes.

Changes in the text: Page 3, line 107 - 108.

Comment 3: In traditional medicine, *Valeriana jatamansi* Jones is widely utilized to treat depression, neurosis, sciatica, hysteria and is treated as an alternative to tranquilizer. *Valeriana jatamansi* Jones is utilized to sciatica as pain-killing drug, not tranquilizer.

Reply 3: Thank you for your suggestion. We have revised this part according to the reviewer’s comments.

Changes in the text: Page 4, line 134 - 135.

Comment 4: Pharmacological effects of *Valeriana jatamansi* Jones were reviewed in the paper. It is suggested to supplement some activity mechanisms of *Valeriana jatamansi* Jones in the review.

Reply 4: Thank you for your suggestion. In the manuscript, we summarized the activity mechanisms of *Valeriana jatamansi* Jones in section “Related Mechanisms”.

Changes in the text: Page 15, line 599 - 642.

Comment 5: In the part of neuroprotective activities, neuroprotective activities of *Valeriana jatamansi* Jones were performed by glial cells or neurons?

Reply 5: Thank you. Neuroprotective activities of *Valeriana jatamansi* Jones were performed by neuronal cells, and we have modified the descriptions in the text.

Changes in the text: Page 4, line 144 and line 149.

Comment 6: Whether *Valeriana jatamansi* Jones have been applied in clinical as anti-tumor drugs?

Reply 6: Thank you. Clinically, *Valeriana jatamansi* Jones is applied for treating insomnia (Tagara), anxiety (Antianxiotic Compound Prescription Capsule) and pediatric rotavirus enteritis (Compound Mati Xiang Keli). It has not been applied as anti-tumor drugs yet as mentioned in the manuscript.

Changes in the text: Page 16, line 663 - 667.

Comment 7: Whether anti-oxidant activity of *Valeriana jatamansi* Jones involved in hepatoprotective activity?

Reply 7: Yes, anti-oxidant activity of *Valeriana jatamansi* Jones is involved in hepatoprotective activity as demonstrated in *reference 104*. We have modified our text to interpret the relationship between two activities.

Changes in the text: Page 11, line 431 - 434.

Comment 8: It was showed that pro-inflammatory cytokines (TNF-a, IL-1 β , IL-2 and IL-6) were significantly ameliorated following *Valeriana jatamansi* Jones rhizome extract (VRE) treatment. How about the effects of *Valeriana jatamansi* Jones on lymphocytes?

Reply 8: Thank you. The stimulation effect of *Valeriana jatamansi* Jones on proliferation of lymphocytes were exhibited with the tests of the transformation rate of splenic lymphocytes and subsets of lymphocytes.

Changes in the text: Page 13, line 498 - 503, line 519 - 524.

Comment 9: In all pharmacological effects of *Valeriana jatamansi* Jones, in clinical *Valeriana jatamansi* Jones were mainly applied as which drug?

Reply 9: Clinically, *Valeriana jatamansi* Jones is mainly applied for treating insomnia (Tagara) in India and treating for pediatric rotavirus enteritis (Compound Mati Xiang Keli) and as anti-anxiety drug (Antianxiotic Compound Prescription Capsule) in China.

Changes in the text: Page 2, line 46 - 56.