Author's response to reviews

Title: Anti-emetic mechanisms of Zingiber officinale against cisplatin induced emesis in the pigeon; behavioral and neurochemical correlates

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Author's response to reviews: see over
Response to reviewer’s comments:

Reviewer: Latifa Bulbul

Compulsory Revision comments
In all manuscript authors have corrected according to reviewer’s comments. The subject of the article is potentially interesting & the scientific content of the manuscript fits with the general scope of the journal.

Minor Essential Revisions
In all manuscript authors have corrected according to reviewer’s comments. Discretionary Revisions comments In all manuscript authors have corrected according to reviewer’s comments.

Response:
We would like to pay thanks to the reviewer for appreciation of the study and its recommendation for publication in the journal “BMC Complementary and Alternative Medicine”.
Response to reviewer’s comments:

Reviewer: Ralf Regenthal

1. The authors gave adequate responses to the criticisms and advices of the reviewer with one exception: The reviewer further states, that there is no adequate description of the neurotransmitters analytical method in the manuscript. The reviewer studied the cited paper by Rauf et al. (31) and found no data about the method of electrochemical detection and performance of the method. Therefore this paper cannot serve as a reference. Without method description, the scientific standard in biomedical journals, especially needed for BMC, is not guaranteed. I would advice a brief description including sample chromatogram, LLOD, CV of the analytes.

Response:

We are thankful to the reviewer for admiration of the previous “Response to comments” and modifications in the manuscript.

We apologize for the insertion of inappropriate reference regarding the HPLC method for the quantification of various neurotransmitters and their metabolites in the specific brain areas and intestine in pigeon. We are happy to insert the new reference regarding the HPLC method, as we previously mentioned that we used the already developed and reproducible HPLC method by Rauf et al (Rauf et al., 2011) from our laboratory but with little modification.

In the revised version of the manuscript we have replaced the inappropriate reference with the appropriate one (Rauf, K.; Subhan, F.; Sewell, R.D.E. A Bacoside Containing Bacopa monnieri Extract Reduces Both Morphine Hyperactivity Plus the Elevated Striatal Dopamine and
Serotonin Turnover. *Phytotherapy Research* 758–763, 2011) and also modified the text regarding the HPLC method.

The subsection “Determination of neurotransmitters and their metabolites” is modified accordingly

“Electrodes 1 and 2 of the analytical cell were set at + 200 and – 200mV respectively, with a sensitivity of 2 mA, while the guard cell (model 5020) potential was set at 500mV. The mobile phase consisted of 94 mM sodium dihydrogen orthophosphate, 40 mM Citric acid, 2.3 mM sodium 1-octane sulphonic acid, 50 uM EDTA, and 10% acetonitrile (pH 3). The flow rate was maintained at 0.6 mL/min. The limit of detection was 11 pg for each of the neurotransmitter and their metabolites except for HVA which was 19 pg. The standards used were noradrenaline hydrochloride (NA), 3, 4-dihydroxyphenylacetic acid (DOPAC), dopamine hydrochloride (DA), 5-hydroxyindole-3-acetic acid (5HIAA), Homovanillic acid (HVA) and serotonin (5HT) (Rauf et al., 2011).”
Response to reviewer’s comments:

Reviewer: Muhammad Zia-Ul-Haq

1. The authors have improved manuscript to a great extent and I recommend its publication in journal. Authors however are advised to cite a recent relevant paper Zia-Ul-Haq M, Shahid SA, Muhammed S, Qayum M, Khan I, Ahmad S: Antimalarial, antiemetic and antidiabetic potential of Grewia aslatica L. leaves. J Medicinal Plant Res 2012, 6: 3213-3216.

Response:

We would like to pay thanks to the reviewer for appreciation of the Manuscript and its recommendation for publication in the journal.

The paper titled “Antimalarial, antiemetic and antidiabetic potential of Grewia aslatica L. leaves” by Zia-Ul-Haq M, Shahid SA, Muhammed S, Qayum M, Khan I, Ahmad S has been cited in the new version of the manuscript.

“Plants are proving themselves as important therapeutic entities that are economical, safe and readily available particularly in rural communities (Darmani, 2001; Sharma et al., 1997; Ullah et al., 2014; Zia-Ul-Haq et al., 2012)”
Refrences:


