



September 29th 2015

Dear Dr.
Julián Monge-Nájera
Director
Revista Biología Tropical
Universidad de Costa Rica

We are resubmitting the following manuscript "Volatile compounds profile of Bromeliaceae flowers by HS-SPME/GC-MS" for publication in Revista Biología Tropical

First of all, we would like to thank for all comments and revisions.

We evaluated the reviewer's comments of the manuscript. Following are the answers to the comments and proposed changes to the new version of the manuscript.

REVIEWER 1.

Question: Is the first part an updated and interesting introduction to the subject? No)X

Answer:

The introduction has been improved in some paragraphs and new information were incorporated to becoming its content more valuable and interesting.

Question: Is the Material and Methods section correct and the study can be repeated or reinterpreted on the basis of the information it contains? No)X

Answer: Paragraphs were rewritten.

Question: Are the organization and grammar satisfactory? No)X Explain: It is one of major problem for reviewing the manuscript. Please rewrite results and discussion sections for better understanding to readers of this journal.

Answer: Paragraphs were rewritten to better understanding and a review to English language was carried out by a native. Some new paragraphs have been included for better discussion of the manuscript.

Question: Line 29: Bromeliaceae presents a wide diversity of forms and are _ Bromeliaceae presents a wide diversity of forms and is

Answer: Correction done.

Questions: Line 40: studies, considering _ delete comma: studies considering

Answer: Correction done.

Questions: Line 52: spectrometry, aiming to bring _ spectrometry, and to bring

Answer: Correction done.

Questions: Line 65: ESALQ _ spell out to Escola Superior de Agricultura Luiz de Queiroz (ESALQ)

Answer: Correction done.

Questions: Line 65 USP _ Spell out ??

Answer: Correction done.

Questions: Line 68: (DVB/PMD, 65µm) _ (DVB/PDMS, 65µm)

Answer: Correction done.

Questions: Line 70: system, using _ system with

Answer: Correction done.

Questions: Line 70: injection mode at 240°C _ is it right temperature? Please see line 76: the injection temperature was 280°C. Which one is correct?

Answer: The correct temperature was adjusted.

Questions: Lines 74-76: what means "final temperature 230°C" on line 75? what means "remaining at 320°C for 10 min" on line 75? how did you calculate "40 min" for total running time on line 76? what means "the injection temperature was 280°C" on line 76? There are NOT MAKE SENSDE for analytical method of GC.

Line 77: the injection volume was 2µL in split 1:20 _ did you inject liquid sample to GC or GC- MS?

Answer: Paragraph rewritten and times and temperatures were revised according instrument specification.

Questions: Line 79: he volatile _ The volatile

Answer: Correction done.

Questions: Lines 79-80: identified by comparison with data the profile from the Wiley 138 and...-> identified by Wiley 138 and..

Answer: Correction done.

Questions: Line 80: calculated, based _ delete comma as calculated based

Answer: Correction done.

Questions: Line 87: was efficient with the observation of 80 compounds, from which 71.--> was observed 80 compounds which 71..

Answer: Correction done.

Questions: Line 88: identified, belonging to eight chemical groups including alcohols,...-> identified eight chemical groups as: alcohols

Answer: Correction done.

.Questions: Line 88: how did you calculate 8 groups? I think there are 9 chemical groups as: alcohols, terpenoid, aldehydes, esters, ketones, ethers, furans, oxides, and styrenes.

Answer: Correction done.

Questions: Line 92: volatile compounds, 31, _ volatile compounds as 31 chemicals while

Answer: Correction done.

Questions: Pages 4-7: please rewrite sentences

Answer: Sentences were rewritten to better understanding and a review to English language was carried out by a native person.

Question: For references: There is not cited reference on text:

List of NOT CITED references: Bordiga et al., (2013); Brechbill (2007); Cullere et al., (2013); Phi et al., (2006); Fan and Quian (2006); Jabalpurwala et al., (2009); Lee et al., (2013); Wang et al., (2012); Zheng et al., (2004).

Answer: The citation can be found in the footnote of the Table 1.

Question: There is not added reference year as: Chaverri, C., & Ciccio, J. F. (2015)

Answer:

REVIEWER 2

Question: In the Key words: I suggest to change bromeliad to Bromeliaceae in order to retrieve more academic references.

Answer: Suggestion accepted

Question: Also to check out the article of Aguilar et al, 2014. Annals of Botany 113: 1047-1045, since it mention flower aroma analysis of a sample from Tillandsia genus. In terms of pollination studies and possible action of volatiles, it might be interesting to register the time at which the flowers were sampled, since aroma composition varies throughout the day and if this issue is important for pollinators attraction, it might coincide with pollinators habits (day or nighttimes).

Answer: We really appreciate all the reviewer suggestions and new information was incorporated.

This manuscript was carefully revised before resubmission, and the information contained in this manuscript has not been published before and this manuscript has not been sent simultaneously to another journal. The coauthors meet the journal's ethical norms regarding procedure, format and other pertinent aspects, all coauthors have participated in the development of this manuscript and agree with this submission. We agree to pay excess page fee charges if required.

We thank you in advance for your efforts on this resubmission.

Sincerely,



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