



September 30th 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.

In this work we evaluate the volatile compounds in 13 species of Bromeliaceae belonging to four genera on this family. Bromeliaceae is composed of thousands of species of plants with ornamental and ecological interest, with increasing reports on their potential phytochemicals that can be used in pharmaceutical, cosmetical and food industry. The characterization of these compounds and its association with pollination is also of a great interest for ecological and conservational studies in this family, which possesses many endangered species. In this work we identified floral volatiles in 13 bromeliad species belonging to four genera. A total of 71 volatile compounds were identified using headspace solid-phase micro-extraction with gas chromatography-mass spectrometry (GC/MS) and the species were grouped by PCA analysis according to the volatile composition. The most abundant compounds were gaultheric acid, β -myrcene and n-hexanol among others belonging to eight chemical groups. This work presents original data obtained from species belonging to the Bromeliaceae, a family of plants highly valued ecologically and ornamentally, and with thousands of species endemic to the Americas.

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.

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Below we suggest three names as potential reviewers for this manuscript:

Marlies Sazima, Ph.D.
Professor and Researcher, Universidade Estadual de Campinas, Campinas, Brazil.
msazima@unicamp.br

Guang-Ming Sun
South Subtropical Crop Research Institute, Chinese Academy of Tropical Agricultural Science,
Guangdong, Zhanjiang, 524091, China
ziboweichangbin@163.com



Carlos Chaverri
Escola de Química y Centro de Investigaciones em Productos Naturales (CIPRONA)
Universidad de Costa Rica, 11501-2-6-, San José, Costa Rica
carloschaverri@yahoo.com

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

Sincerely,

Everton Hilo de Souza
hilosouza@gmail.com

Adna P. Massarioli
adnaprado@gmail.com

Ivani A. M. Moreno
imoreno@usp.br

Fernanda V. D. Souza
fernanda.souza@embrapa.br

Carlos A. S. Ledo
carlos.ledo@embrapa.br

Severino M. Alencar
smalencar@usp.br

Adriana P. Martinelli
adriana@cena.usp.br