

# Accepted Manuscript

Contamination of hepatotoxic pyrrolizidine alkaloids in retail honey in China

Lin Zhu, Zhangting Wang, Lailai Wong, Yisheng He, Zhongzhen Zhao, Yang Ye,  
Peter P. Fu, Ge Lin



PII: S0956-7135(17)30511-X

DOI: [10.1016/j.foodcont.2017.10.026](https://doi.org/10.1016/j.foodcont.2017.10.026)

Reference: JFCO 5835

To appear in: *Food Control*

Received Date: 27 June 2017

Revised Date: 20 September 2017

Accepted Date: 22 October 2017

Please cite this article as: Zhu L., Wang Z., Wong L., He Y., Zhao Z., Ye Y., Fu P.P. & Lin G., Contamination of hepatotoxic pyrrolizidine alkaloids in retail honey in China, *Food Control* (2017), doi: 10.1016/j.foodcont.2017.10.026.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# 1 Contamination of Hepatotoxic Pyrrolizidine Alkaloids in Retail Honey in China

2 Lin Zhu<sup>1,2,4#</sup>, Zhangting Wang<sup>1,2,#</sup>, Lailai Wong<sup>3</sup>, Yisheng He<sup>1,2</sup>, Zhongzhen Zhao<sup>3</sup>, Yang Ye<sup>2,5</sup>, Peter P. Fu<sup>6</sup>, Ge Lin<sup>1,2,\*</sup>

3

4 <sup>1</sup>School of Biomedical Sciences, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong SAR,  
5 China;

6 <sup>2</sup>Joint Research Laboratory for Promoting Globalization of Traditional Chinese Medicines between The Chinese  
7 University of Hong Kong and Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China;

8 <sup>3</sup>School of Chinese Medicine, Hong Kong Baptist University, Hong Kong SAR, China;

9 <sup>4</sup>Shenzhen Research Institute, The Chinese University of Hong Kong, Shenzhen, 518057, China;

10 <sup>5</sup>State Key Laboratory of Drug Research and Natural Products Chemistry Department, Shanghai Institute of  
11 Materia Medica, Chinese Academy of Sciences, Shanghai, 201203, China;

12 <sup>6</sup>National Center for Toxicological Research, Jefferson, AR 72079, United States of American.

13

14 **\*Correspondence:** Ge Lin

15 **E-mail:** linge@cuhk.edu.hk

16 <sup>#</sup>These authors contributed equally to this work.

17

18 **Keywords:** Food safety / China honey / Pyrrolizidine alkaloid / Pollen analysis / LC-MS analysis

19

20 **Abbreviations:** PAs, pyrrolizidine alkaloids; UHPLC, ultra-high-performance liquid

21 chromatography; MRM, multiple reaction monitoring; LOD, limit of detection; LOQ, limit of

22 quantitation; RSD, relative standard deviation; HPLC-DAD, high performance liquid

Download English Version:

<https://daneshyari.com/en/article/8888275>

Download Persian Version:

<https://daneshyari.com/article/8888275>

[Daneshyari.com](https://daneshyari.com)