

## Accepted Manuscript

Title: Cell damage and apoptosis in the hepatopancreas of *Eriocheir sinensis* induced by cadmium

Authors: Yong Lin, Jia-jia Huang, Hans-Uwe Dahms, Jing-jing Zhen, Xue-ping Ying



PII: S0166-445X(17)30201-1  
DOI: <http://dx.doi.org/doi:10.1016/j.aquatox.2017.07.008>  
Reference: AQTOX 4702

To appear in: *Aquatic Toxicology*

Received date: 8-5-2017  
Revised date: 14-7-2017  
Accepted date: 16-7-2017

Please cite this article as: Lin, Yong, Huang, Jia-jia, Dahms, Hans-Uwe, Zhen, Jing-jing, Ying, Xue-ping, Cell damage and apoptosis in the hepatopancreas of *Eriocheir sinensis* induced by cadmium. *Aquatic Toxicology* <http://dx.doi.org/10.1016/j.aquatox.2017.07.008>

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.

## &lt;Aquatic Toxicology&gt;

**Cell damage and apoptosis in the hepatopancreas of *Eriocheir sinensis* induced by cadmium****Running Head:** Cell damage of *Eriocheir sinensis***Yong Lin<sup>a</sup>, Jia-jia Huang<sup>a</sup>, Hans-Uwe Dahms<sup>b</sup>, Jing-jing Zhen<sup>a</sup>, Xue-ping Ying<sup>a\*</sup>**<sup>a</sup> *College of Life and Environmental Sciences, Wenzhou University, Wenzhou 325035, China*<sup>b</sup> *Dept. of Biomedical Science and Environmental Biology, Kaohsiung Medical University, No. 100, Shin-Chuan 1st Road, Kaohsiung 80708, Taiwan R.O.C.*

\* Corresponding author at: College of Life and Environmental Sciences, Wenzhou University, Wenzhou, 325035, China. Tel.: +86 13605775663.

E-mail address: xpying2008@wzu.edu.cn; 624210110@qq.com (X.-P. Ying).

## Highlights

- Cadmium can induce apoptosis in the hepatopancreas of *Eriocheir sinensis*.
- The membrane structure of the hepatopancreas was seriously influenced by Cd<sup>2+</sup>.
- Cd<sup>2+</sup> displayed significant increases in caspase-3, 8, 9 activities.

Download English Version:

<https://daneshyari.com/en/article/5764282>

Download Persian Version:

<https://daneshyari.com/article/5764282>

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