## Accepted Manuscript

Title: Diethylstilbestrol, flutamide and their combination impaired the spermatogenesis of male adult zebrafish through disrupting HPG axis, meiosis and apoptosis

Authors: Pan Yin, Ying-Wen Li, Qi-Liang Chen, Zhi-Haog Liu

PII: S0166-445X(17)30044-9

DOI: http://dx.doi.org/doi:10.1016/j.aquatox.2017.02.013

Reference: AQTOX 4593

To appear in: Aquatic Toxicology

Received date: 25-11-2016 Revised date: 30-12-2016 Accepted date: 8-2-2017

Please cite this article as: Yin, Pan, Li, Ying-Wen, Chen, Qi-Liang, Liu, Zhi-Haog, Diethylstilbestrol, flutamide and their combination impaired the spermatogenesis of male adult zebrafish through disrupting HPG axis, meiosis and apoptosis. Aquatic Toxicology http://dx.doi.org/10.1016/j.aquatox.2017.02.013

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.



## ACCEPTED MANUSCRIPT

Diethylstilbestrol, flutamide and their combination impaired the spermatogenesis of male adult zebrafish through disrupting HPG axis, meiosis and apoptosis

Running title: Mechanisms involved in DES, FLU and their combination induced spermatogenic impairment in male zebrafish.

Pan Yin, Ying-Wen Li, Qi-Liang Chen, Zhi-Hao Liu\*

Chongqing Key Laboratory of Animal Biology, College of Life Sciences, Chongqing Normal University, Chongqing 401331, China

\*Corresponding Author at: Chongqing Key Laboratory of Animal Biology, School of Life Sciences, Chongqing Normal University, Chongqing 401331, China. Tel.: +86 23 6591 0315; Fax: +86 23 6591 0315.

E-mail Address: minenut@163.com (Z. Liu).

## Download English Version:

## https://daneshyari.com/en/article/5764252

Download Persian Version:

https://daneshyari.com/article/5764252

<u>Daneshyari.com</u>