

March 10, 2014

Dear editor,

Please find enclosed the edited manuscript in Word format(file name: 7943-Brief article.doc).

Title: Effects of high-fat diet in development of colonic adenoma in an animal model

Author: Qing-Chao Zhu, Ren-Yuan Gao, Wen-Wu, Bo-Min Guo, Jia-Yuan Peng, Huan-Long Qin

Name of Journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 7943

The manuscript has been improved according to the suggestions of reviewers:

1. Format has been updated.
2. Revisions have been made according to the suggestions of the reviewer and highlighted in red.
 - (1) Stylistic changes and language correction have been made according to the suggestions of reviewer in order to increase the clarity of text.
 - (2) The viewpoint from two last sentences on page 13 is cited from other studies, and a reference has been added as "Ref 23" in the revised manuscript.
 - (3) The position of "Figure 1A" has been replaced and the order of the references has been adjusted.
 - (4) We have revised the first two paragraphs of the discussion to avoid the repetition of the information which presented in the section such as "Introduction" and the paragraphs were properly shortened.
 - (5) The title of our manuscript has been revised into "Effects of high-fat diet in the development of colonic adenoma in an animal model" in order to represent the core content of our study.
 - (6) 1,2-Dimethylhydrazine(DMH) is a highly specific carcinogen that induce colorectal tumors in a dose-dependent manner. Using the "experimental procedures" introduced in the manuscript, animals are scored for

intermediate biomarkers of colon carcinogenesis, termed aberrant crypt foci, 8-12 weeks after the application(short-term study) or for the number of colonic tumors 40 weeks later(long-term study). In animal models, the dysplastic aberrant crypts or intraepithelial neoplasia have the potential to progress to advanced adenomas, which have a significant potential to transform into adenocarcinomas. Therefore, the colonic adenomas induced in our study are confirmable, which could also be evidenced by the experience of Peng et al(*Electrophoresis*. 2009;**30**:2976-87).

(7) In order to reduce the confusion existed in the relationship between obesity and colorectal adenoma formation, we have mentioned a newly viewpoint suggested by the reviewers which conducted by Choe EK et al(*World J Gastroenterol*. 2013;**19**:8349-56). And the relative content has been added in the manuscript.

(8) In order to make the procedure of how to establish animal tumor model more paraphrastic, we have added the relative contents in the “METHODS” part according to the reviewers’ suggestion.

(9) The explanation for Figure 1B and Figure 3 have been clarified, and the order of these two figures has also been rearranged in the text. In addition, the pictures in “Figure 2” have been adjusted to make the presentation of our results more rational.

(10) The micrographs of fatty liver stained with Oil Red O have been added into “Figure 2” with the purpose of presenting lipid droplet in the liver cells.

(11) The rectangle marks in “Figure 3” have been added in the pictures with white lines according to the reviewers’ suggestion.

(12) All of the figures have been adjusted according to the “Revision Policies” in order to meet the requirement which figures should be 85mm in height and 126mm in width, and at a resolution of 300dpi.

(13) Explanations have been added in “Figure 4”.

(14) The ELISA assay for the levels of IL-6 and CXCL-10 has been supplemented to our study which exhibited in “Figure 4”.

(15) For immunofluorescence staining results, we have added the micrographs of non-tumor(normal) tissues which from ND and HFD groups into “Figure 5” according to the reviewers’ suggestions.

(16) The “filled” has been revised into “field” in the legend of Figure 3.

(17) Grammatical and spelling errors have been revised by a professional English language editing company of jingyunma-editing office, and a recommendation certificate have been provided(Verification Code: 2014-02-0091).

3. References and typesetting were corrected.

Thank you again for publishing our manuscript in the *World Journal of Gastroenterology*.

Sincerely yours,

Huanlong Qin, MD, PhD

Department of Surgery,

The Sixth People's Hospital Affiliated to Shanghai Jiao Tong University,

600 Yishan Road,

Shanghai, People's Republic of China.

Fax: +86-21-64361349.

Email: huanlongqin@yahoo.com.