

February 10, 2015

Dear Editor,

Thank you very much for all your work about the manuscript numbered 15402. We have studied the commons of the reviewers carefully and have made correction which we hope meet with their approval.

Please find enclosed the edited manuscript in Word format (file name: 15402-review.doc).

Title: Relationship between the expression of NADPH Oxidase2 and the invasion and prognosis of human gastric cancer

Author: Peng Wang ,Qiao Shi, Wenhong Deng, Jia Yu, Teng Zuo,Fangchao Mei, Weixing Wang

Name of Journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 15402

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

1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer

The reviewer numbered 2537605

- (1) The author assessed tumor tissue and the adjacent tissue from 123 patients, in the results, the authors only mention 'the NOX2 was over-expression in the gastric cancer tissues compare to the adjacent tissues', but did not list the expression of rate in the adjacent tissues.

Thanks for the good advices provided by the reviewer. We have detected the expression of NOX2 in both gastric cancer tissue and its adjacent tissue, the rate of the expression of NOX2 in the adjacent tissue was 44.7% (55/123),the staining density in the adjacent tissue was weaker than that in the GC tissues. The revise place was on w lines page 11.

- (2) It is our fault that we did not clearly explain about the meaning of the up-regulate rate of NOX2 in the GC tissues. Thank you for your warmly advices and give me the chance for improving our paper according to your advices.

In the western blot analysis, the up-regulate rate of NOX2 is 39% in the GC tissues. This number was got from the whole GC patients, that means in the 123 patients there was 48 patients up-regulate the NOX2 in the GC tissues compared to the adjacent tissues. From the IHC results, we got the information that the NOX2 was positive expression in 58 patients. So in the NOX2 positive expression tissues, the rate of NOX2 up-regulated was 82.8% (48/58). This can support the conclusion.

- (3) In table 1, according to the suggestion of the reviewer and the help with the professional statistician, we use the Chi-square and Fisher's exact tests for comparisons of categorical variables. There are some articles that support the statistical analysis method such as: Chen L, Chan TH, Yuan YF, Hu L, Huang J, Ma S,

Wang J, Dong SS, Tang KH, Xie D, Li Y, Guan XY. CHD1L promotes hepatocellular carcinoma progression and metastasis in mice and is associated with these processes in human patients. *The Journal of clinical investigation* 2010; **120**(4): 1178-1191 [PMID: 20335658 PMCID: PMC2846051 DOI: 10.1172/jci40665]

Tao LL, Shi SJ, Chen LB, Huang GC. Expression of monocyte chemotactic protein-1/CCL2 in gastric cancer and its relationship with tumor hypoxia. *World journal of gastroenterology : WJG* 2014; **20**(15): 4421-4427 [PMID: 24764682 PMCID: PMC3989980 DOI: 10.3748/wjg.v20.i15.4421]

- (4) This manuscript has been editing for grammar by the AJE company
- (5) Table2 and Table3 have been revised according to the advices of review. The subgroup title has been deleted. (page16,Table2;page 17,Table3)
- (6) The conclusion statement" the tumor associated Macrophage may the major resource of NOX2" is over-stated and it is not ht main discussion content. Thanks a lot for the good advices of reviewer. The IHC result shown in the paper can only explain that the tumor associated Macrophage may one of the resource of NOX2. Because it is only the extensions of the paper, not the main discussion content, we agreed with the opinion of reviewer.

The answer to the reviewer (no 3009090)

- (1) Thank you very much for your advices about the statistician
In table 1, according to the suggestion of the reviewer and the help with the professional statistician, we use the Chi-square and Fisher's exact tests for comparisons of categorical variables. There are some articles that support the statistical analysis method such as: Chen L, Chan TH, Yuan YF, Hu L, Huang J, Ma S, Wang J, Dong SS, Tang KH, Xie D, Li Y, Guan XY. CHD1L promotes hepatocellular carcinoma progression and metastasis in mice and is associated with these processes in human patients. *The Journal of clinical investigation* 2010; **120**(4): 1178-1191 [PMID: 20335658 PMCID: PMC2846051 DOI: 10.1172/jci40665]

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- (2) Table2 and Table3 have been revise according to the advices of review. The regression coefficient ,SE and χ^2 value had been added.(page16,Table2;page 17,Table3)
- (3) The result of WB should be used for semi-quantitative analysis and statistical tests. (page11,figure2)

3 References and typesetting were corrected

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

Sincerely yours,

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