

## ANSWERING REVIEWERS



July 2, 2013

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 3929-review.doc).

**Title:** Interaction between COX-2, Snail, and E-Cadherin in gastric cancer cells

**Author:** Xiaojun Liu, Zhaofeng Chen, Hailong Li, Zenan Hu, Min Liu, Aiping Tian, Da Zhao, Jing Wu, Yongning Zhou, Liang Qiao

**Name of Journal:** *World Journal of Gastroenterology*

**ESPS Manuscript NO:** 3929-review

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

**1. Reviewer 1 (02523299):**

**Comment 1.1.** I found some of the dialogue slightly confusing, however.

**Answer 1.1.** The regulatory mechanisms between COX-2 and NF- $\kappa$ B were heterogeneous in different cancer cell lines. Therefore, some of the conclusion was inconsistent in our discussion part. Our data suggested that COX-2 may function upstream E-cadherin pathways in SGC-7901 cells, in which COX-2 was high expressed.

**Comment 1.2.** Table 1+2 are of no relevance to the reader and could be removed.

**Answer 1.2.** Table 1 and Table 2 showed the sequences of siRNAs and primers for RNAi and qPCR, respectively. These nucleotide sequences may provide useful information for readers, and we believe they are worthwhile to keep.

**Comment 1.3.** Figures 1, 2+3 could be more polished and user friendly. They do not reproduce well.

**Answer 1.3.** These figures have been modified for better presentation.

**2. Reviewer 2 (02461125):**

**Comment 2.1.** Although the detailed experiments and data may vary significantly, the purpose and conclusion of this study is very similar to the corresponding author's published results (Chen et al. *Int J Mol Med*, 2013; 32:93-100). Authors should address the major difference between the two studies.

**Answer 2.1.** The authors research team has been focused on the role COX-2 in the development of gastric cancer, and the underlying molecular mechanisms. Both papers were accomplished by same study group. The former paper used Celecoxib to block the activity of COX-2 whereas the current study adopted a RNAi based approach to further explore the regulatory mechanism of COX-2 on E-cadherin in gastric cancer cells. The paper by Chen et al (*Int J Mol Med*, 2013; 32:93-100) has been cited in the current work (reference 12).

**Comment 2.2.** Fig. 3 contains data which may be inconsistent with the suggested Cox-2/PGE2/NF- $\kappa$ B/Snail/E-cadherin pathway. For example, given that NF- $\kappa$ B acts downstream of PGE2, when comparing lane 5 with lanes 3 and 1, decreased Snail and upregulated E-cadherin are anticipated; when comparing lane 3 with lane 1, Snail should be increased while E-cadherin should be down-regulated. Neither of these alterations was actually observed in Fig. 3.

**Answer 2.2.** We completely agree with this reviewer. Another figure has been uploaded, in which the difference between each groups is displayed more clearly.

**Comment 2.3.** In addition, "scramble siRNA" is not a definitive label

**Answer 2.3.** In revised manuscript, "scramble siRNA" was replaced with "control siRNA" in relevant figures.

**Comment 2.4.** "PEG2" should be "PGE2".

**Answer 2.4.** We apologize for this mistake. It has been corrected.

**Comment 2.5.** Statistical analysis should be performed from Fig. 1 to Fig. 3.

**Answer 2.5.** A \* has been added on qPCR data in Figs. 1 to 3 to indicate the statistic significance. The differences in Western blot bands was so obvious that a statistic mark may not be necessary. In addition, data for the statistic analysis were showed in main body of manuscript.

**Comments 2.6.** It is unnecessary to present the sequences of each of the 2 strands of siRNA which are completely complementary.

**Answer 2.6.** Please refer to the Answer 1.2.

The authors are grateful to the reviewers and editors for handling our manuscript and considering publishing our work in the *World Journal of Gastroenterology*.

Sincerely yours,

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