Author's response to reviews

Title: MiR-133b is frequently decreased in gastric cancer and inhibits cell metastasis

Authors:

Yu Zhao (jeremyzhaoyu@gmail.com)
Jie Huang (wwery@139.com)
Li Zhang (13816830152@139.com)
Ying Qu (guying1998@gmail.com)
Jianfang Li (micromd@qq.com)
Beiqin Yu (1851895333@qq.com)
Min Yan (13329019577@189.cn)
Yingyan Yu (229003588@139.com)
Bingya Liu (byliu@sjtu.edu.cn)
Zhenggang Zhu (zhuzg@shsmu.edu.cn)

Version: 2 Date: 30 May 2013

Author's response to reviews:

Dear Ms. Cherry Battad:

We resubmit our manuscript entitled "MiR-133b is frequently decreased in gastric cancer and inhibits cell metastasis" to BMC Cancer for publication.

In this report, we found that expression of miR-133b was significantly down-regulated in 70% (98/140) of the gastric cancer tissues compared with adjacent non-tumor tissues. Expression of miR-133b negatively correlated with lymph node metastasis of gastric cancer in patients. Similarly, the expression of miR-133b was much less in eight tested gastric cancer cell lines than in a immortalized gastric epithelial cell line GES-1. Overexpression of miR-133b significantly inhibits migration and invasion of gastric cancer cells in vitro. In a mouse gastric cancer model, overexpression of miR-133b suppressed peritoneal spreading of metastasis. Moreover, the transcriptional factor Gli1 was identified as a direct target for miR-133b. Subsequently, Gli1 target genes OPN and Zeb2 were also inhibited by miR133b. These results suggested that miR-133b plays an important role in gastric cancer metastasis.

The work described has not been submitted elsewhere for publication, in whole or in part, and all the authors listed have seen the manuscript and approved to submit to your journal.

The authors have declared that no competing interests exist.

Thank you very much for your attention and consideration.

Thank you for your kind review of our manuscript. According to your suggestions, the revised manuscript has been submitted. Details changes made in response
to reviewers’ comments are addressed point by point as follows:

Responses to Reviewer:

EDITORS REQUIREMENTS:
----------------------------------
1). Requesting ethics statement:
Research involving human subjects (including human material or human data) that is reported in the manuscript must have been performed with the approval of an appropriate ethics committee. Research carried out on humans must be in compliance with the Helsinki Declaration (http://www.wma.net/en/30publications/10policies/b3/index.html). A statement to this effect must appear in the Methods section of the manuscript, including the name of the body which gave approval, with a reference number where appropriate.

Answer:
We have add the ethics statement in the Methods section of our new revised manuscript.

2). Requesting animal ethics:
Experimental research on vertebrates or any regulated invertebrates must comply with institutional, national, or international guidelines and where available should have been approved by an appropriate ethics committee. A statement detailing compliance with guidelines and/or ethical approval must be included in the manuscript. For studies involving client-owned animals, authors must document informed client consent and adherence to a high standard (best practice) of veterinary care. Authors are encouraged to conform to the Animal Research: Reporting In Vivo Experiments (ARRIVE) guidelines (http://www.nc3rs.org.uk/page.asp?id=1357) for reporting animal studies.

Answer:
We have add the animal ethics in the Methods section of our new revised manuscript.

Sincerely yours,

Bingya Liu,

MD, PhD, Prof.

Vice Dean of Shanghai Center for Systems Biomedicine,

Shanghai Jiao Tong University

Acting Director of Shanghai Institute of Digestive Surgery

and Shanghai Key Laboratory of Gastric Neoplasms,

Ruijin Hospital, School of Medicine, Shanghai Jiao Tong University.

Shanghai 200025

Tel:86-21-64670644
Fax: 86-2164373909
Cell phone: 15921776931 (or 6299)