Author's response to reviews

Title: Glucose-regulated protein 58 modulates beta-catenin protein stability in cervical adenocarcinoma

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Dear Professors Solera:

Dec 19, 2013

We would like to submit our manuscript entitled “Glucose-regulated protein 58 modulates β-catenin protein stability in cervical adenocarcinoma” by Chia-Jung Liao, Tzu-I Wu, Ya-Hui Huang, Ting-Chang Chang, Chyong-Huey Lai, Shih-Ming Jung, and Kwang-Huei Lin which we would like considered for publication as a regular research article in the *BMC Cancer*. The informed consent was obtained, and the study protocol has been approved by the Medical Ethics and Human Clinical Trial Committee of the Chang Gung Memorial Hospital.

Previously, we showed that glucose-regulated protein 58 (Grp58) serves as an independent factor predictive of poor prognosis for cervical adenocarcinoma. Grp58 regulates the metastatic ability of HeLa cells, but the molecular mechanism is unknown. This study aims to investigate the molecular mechanism underlining Grp58 function. DNA microarray and enrichment analysis were used to identify pathways regulated by Grp58. WNT signaling is one of the significantly enriched pathway. Our results provided the first evidence that Grp58 regulates β-Catenin protein stability and subcellular localization to modulate HeLa cell invasiveness. Overexpression of Grp58 may result in loss of or decrease in membranous β-catenin expression to promote tumor progression in cervical cancer. These findings further added to our cognition about the role of Grp58 in cervical cancer progression.

The work is original in presentation and content that the work has neither been published elsewhere including being posted on any site on the internet nor is simultaneously under submission as a complete paper with another journal. All authors have read and approved the manuscript including content and presentation to the *BMC Cancer*.

I am looking to hearing from you.
Sincerely yours,

KH Lin

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