Author's response to reviews

Title: MYC, FBXW7 and TP53 copy number variation and expression in Gastric Cancer

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Version: 3 Date: 23 June 2013

Author's response to reviews: see over
Editor
BMC Gastroenterology

ACP03 cell exhibited increased migration activity compared to ACP02 cells. On the other hand, ACP02 cells presented higher invasion rate and enhanced protease activity compared to ACP03 cells. We interpreted this result based on conceptual differences between migration and invasion assays. The migration assay detects cell motility through an 8 µm pore polycarbonate membrane. Invasion assay not only evaluates cell motility but also the ability of tumor cells to invade through an obstructive matrix represented by Matrigel. Besides ACP03 ability to migrate, in the presence of environmental cues provided by Matrigel and its soluble factors ACP03 was not able to digest matrigel and invade. Our results show that the presence of active MMP-9 was 50% lower in ACP03 compared to ACP02. This can explain why besides a lower migration rate, ACP02 could invade more successfully. Thus ACP02 cells also exhibited motile properties, in conjunction with invasive features and protease activity.

Additionally, other minor concerns raised by the reviewer Yueyong Liu were repaired and English was revised.

Thank you for your attention.

Yours sincerely,

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