Author's response to reviews

Title: Promoter hypermethylation-induced transcriptional down-regulation of the gene MYCT1 in Laryngeal Squamous Cell Carcinoma

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Author's response to reviews: see over
Cover letter

Dear Editors,

We are grateful for the reviewers’ comments on our study. With the help of these suggestions, we have revised the paper point-by-point according to the comments and marked the revised in red. Please see the details as follows:

To Martin Granados:

Question one: This is one issue that clinical implication of your findings has not been discussed.

The answer: We have complemented the clinical implications of our findings in the last two paragraphs of discussion section.

Question two: Limitations of the study has not been stated.

The answer: We have put the addition for the question at the end of the paper.

To Pierre-François Cartron:

Question one: Q-PCR analysis need to be performed to quantify the $MYCT1$ mRNA expression.

The answer: We have added RQ-PCR of the $MYCT1$ mRNA expression in section 2.4, section 3.2 and Fig2B.

Question two: The authors need to show that the 5-aza treatment promoted the demethylation of the $MYCT1$ gene.

The answer: We have used BSP to detect the methylation status of $MYCT1$ treated with 5-aza in section 2.4 and Fig2A.

Question three: No antibody directed against c-Myc was used to abrogate the band gel shift and ChIP experiments is required to evaluate the quantity of c-Myc on methylated and unmethylated $MYCT1$ gene in Hep2 cells and Hep2 cells treated with 5-aza.

The answer: We have complemented the band gel super-shift against c-Myc in Fig4A and ChIP analysis was displayed in section 2.8, 3.4, discussion and Fig4B.
Question four: Re-ChIP Using antibodies directed against Dnmt3a and c-Myc need to be realized.

The answer: Hervouet E (Epigenetics, 2009) has already verified that Dnmt3a/c-myc interaction as a co-repressor promoted the site-specific methylation of CG dinucleotides localized in c-myc boxes of promoter regions, which has been cited in our discussion section. Therefore, we do not think that “Re-ChIP Using antibodies directed against Dnmt3a and c-Myc” is necessary in this study.

Thank you for your kind suggestions again.

Best Regards,

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