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SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Journal of Pharmaceutical Research International	
Manuscript Number:	Ms_JPRI_36743	
Title of the Manuscript:	The expression patterns of APC2 and APC7 in newly diagnosed acute lymphoblastic leukemia	
Type of Article:	Original research paper	

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
The authors clarify why they used the formula $2^{-\Delta Ct, case}/2^{-\Delta Ct, control}$ instead of the $2^{-\Delta \Delta Ct}$	
method, they added a reference to the manuscript that explains in which circumstance	
this formula can be used to calculate gene fold induction. Unfortunately I could not get	
access to the referenced paper as only the Abstract for this paper is available on the N	
website, I trust that the authors used the aforementioned formula on the basis of the	
referenced paper.	
I am still extremely concerned regarding the statistical analysis performed by the author	
and I feel that my comments were not appropriately addressed. The authors mention d	ping
the experiments in triplicates, but as I mentioned in my previous comments – the data	
presented should be the result of at least three independent experiments to have any	
statistical value/significance. This again was not addressed or clarified by the authors,	
which leads me to believe that the results presented are the result of a single experime	
done in triplicate. If this is the case the authors cannot calculate P values based on a s	ngle
experiment. The P values should be calculated from the averages of at least three	
independent experiments, meaning that the qPCR experiments should have been	
performed at least three times (independently) and each time in triplicates. A great pap	
that explains the difference between triplicates and independent experiments for biolog	
is the following: "Know when your numbers are significant" by David L. Vaux, NATURE	
VOL 492, 13 DECEMBER 2012. In this article David L.Vaux explains that triplicates me	
show the accuracy of the operator/researcher and in no way represent reproducibility of	
results. To show reproducibility the experiments need to be done at least three times w	
similar results, the P values should be calculated from the average of these experimen	S
and not from the triplicates used in each experiment.	
The Figure legends in the revised manuscript were improved and there was editing of the	ne
English language throughout the text, although there are still some minor issues.	tion
Finally, none of the recommendations for further experiments were taken into consider	ation
by the authors and no additional experiments were proposed or done by the authors to	
strengthen the scientific value of the research work. Although the experiments suggest	
knocking down or knockout genes in ALL cell lines might be out of the technical capable of the authors. I feel that protein analysis is a fairly approximate and standard technical capable	
of the authors, I feel that protein analysis is a fairly easy and standard technique that c	
be performed. In fact, if the authors were able to extract RNA from the ALL samples, the should not have any problems extracting protein and doing western blot analysis for the	
target gene/proteins. Alternatively, they could have done a more exhaustive analysis to	
qPCR of other genes related to APC2 and APC7, or proposed other studies.	
I qi ori oi oinei genes relateu to AFOZ and AFOT, oi proposed other studies.	

Reviewer Details:

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