



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 61292

Title: LGR5 marks different cancer stem cell compartments in human Caco-2 and LoVo colon cancer lines

Reviewer’s code: 05116713

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer’s Country/Territory: United States

Author’s Country/Territory: Saudi Arabia

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-12-01 12:57

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Review time: 1 Hour

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent [] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[] Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) <input checked="" type="checkbox"/> Minor revision [] Major revision [] Rejection
Re-review	<input checked="" type="checkbox"/> Yes [] No
Peer-reviewer statements	Peer-Review: [] Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: [] Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

Overall, this is an interesting and useful paper, on a topic of great importance for colorectal cancer biology. Data and conclusions are basically sound. The authors did the RT-PCR properly, with the proper controls. The writing needs some editing. SEM is not appropriate for the statistics of a biomedical research paper - SEM is not a descriptive statistic, it measures variation of means not data points, and one SEM is only a 68% confidence interval, not 95%. SD needs to be used. Were the Caco-2 cells always maintained sub-confluent? Those cells begin to differentiate upon confluency. Was the passage number of the cell lines used relatively low? Is it possible that the cell sub-type characteristics of these lines can change when in culture a long time? That may affect reproducibility of the results in other laboratories.