

## 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

**Reviewer performed review:** 2020-12-01 13:10

**Review time:** 1 Hour

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 Grade E: Do not publish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



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
<https://www.wjgnet.com>

#### **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.