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# PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 39768

**Title:** Clinical correlation of B7-H3 and B3GALT4 with the prognosis of colorectal cancer

**Reviewer's code:** 00068625

**Reviewer's country:** Poland

**Science editor:** Xue-Jiao Wang

**Date sent for review:** 2018-05-11

**Date reviewed:** 2018-05-11

**Review time:** 1 Hour

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | PEER-REVIEWER STATEMENTS |
|---|---|---|---|
| [ ] Grade A: Excellent<br>[ ] Grade B: Very good<br>[Y] Grade C: Good<br>[ ] Grade D: Fair<br>[ ] Grade E: Do not publish | [Y] Grade A: Priority publishing<br>[ ] Grade B: Minor language polishing<br>[ ] Grade C: A great deal of language polishing<br>[ ] Grade D: Rejection | [ ] Accept (High priority)<br>[ ] Accept (General priority)<br>[Y] Minor revision<br>[ ] Major revision<br>[ ] Rejection | Peer-Review:<br>[Y] Anonymous<br>[ ] Onymous<br>Peer-reviewer's expertise on the topic of the manuscript:<br>[ ] Advanced<br>[Y] General<br>[ ] No expertise<br>Conflicts-of-Interest:<br>[ ] Yes<br>[Y] No |

## SPECIFIC COMMENTS TO AUTHORS

The paper is organized in a clear and easy to understand manner however there are too many acronyms, that sometimes make it difficult to follow the text. Literature citations are appropriate and adequate for this type of publication. The pictures attached to the work (Figure 1) are of poor quality, especially Fig.1C and 1D. Photographs 1C and 1D

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presumably affect the infiltration of mucinous cancer under the unchanged mucosa - please accurately describe these changes or change photos. I suggest to include larger size photos and mark the relevant elements with the arrows. To sum up, the manuscript is interesting, but in the present form requires improvements before the approval. I recommend this manuscript for publication especially since there are not numerous publications on this subject.

**INITIAL REVIEW OF THE MANUSCRIPT**

***Google Search:***

[ ] The same title

[ ] Duplicate publication

[ ] Plagiarism

[ Y] No

***BPG Search:***

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[ ] Duplicate publication

[ ] Plagiarism

[ Y] No

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# PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 39768

**Title:** Clinical correlation of B7-H3 and B3GALT4 with the prognosis of colorectal cancer

**Reviewer's code:** 03001816

**Reviewer's country:** United States

**Science editor:** Xue-Jiao Wang

**Date sent for review:** 2018-05-11

**Date reviewed:** 2018-05-11

**Review time:** 6 Hours

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | PEER-REVIEWER STATEMENTS |
|---|---|---|---|
| [ ] Grade A: Excellent<br>[ Y] Grade B: Very good<br>[ ] Grade C: Good<br>[ ] Grade D: Fair<br>[ ] Grade E: Do not publish | [ Y] Grade A: Priority publishing<br>[ ] Grade B: Minor language polishing<br>[ ] Grade C: A great deal of language polishing<br>[ ] Grade D: Rejection | [ ] Accept (High priority)<br>[ ] Accept (General priority)<br>[ Y] Minor revision<br>[ ] Major revision<br>[ ] Rejection | Peer-Review:<br>[ Y] Anonymous<br>[ ] Onymous<br>Peer-reviewer's expertise on the topic of the manuscript:<br>[ Y] Advanced<br>[ ] General<br>[ ] No expertise<br>Conflicts-of-Interest:<br>[ ] Yes<br>[ Y] No |

## SPECIFIC COMMENTS TO AUTHORS

This paper shows the importance of expression of B7-H3 and B3GALT4 for CRC prognosis, with possible implications for treatment, particularly immunotherapy. Revision for this paper revolves around two technical points, as well as some questions regarding implications of the stable transfection data. With respect to technical issues: (1)

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what kind of selection was used to generate the stably transfected cell lines? One would expect that some type of selective agent was added to the cell medium; (2) how was the issue of possible DNA contamination of RNA dealt with for the qRT-PCR experiments? Was there a DNase step (TRIzol alone cannot guarantee purely DNA-free RNA)? Or, at least, did the RT step include a no-RT control, for which no product in the subsequent PCR would be expected? As regards, implications of the cell culture work, do the stably transfected SW480 and Caco-2 cells exhibit any differences in growth characteristics or other metrics of cell physiology compared to control transfected? At least, this can be noted as a future direction, a problem that remains to be solved (as well as further investigation with respect to the mechanistic implications of the observed association between gene expression and prognosis - something for a follow-up study). All other parameters with regard this paper are fine.

**INITIAL REVIEW OF THE MANUSCRIPT**

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# PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 39768

**Title:** Clinical correlation of B7-H3 and B3GALT4 with the prognosis of colorectal cancer

**Reviewer's code:** 00503405

**Reviewer's country:** Hungary

**Science editor:** Xue-Jiao Wang

**Date sent for review:** 2018-05-11

**Date reviewed:** 2018-05-13

**Review time:** 1 Day

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | PEER-REVIEWER STATEMENTS |
|---|---|---|---|
| [ ] Grade A: Excellent<br>[ ] Grade B: Very good<br>[ ] Grade C: Good<br>[ Y] Grade D: Fair<br>[ ] Grade E: Do not publish | [ ] Grade A: Priority publishing<br>[ Y] Grade B: Minor language polishing<br>[ ] Grade C: A great deal of language polishing<br>[ ] Grade D: Rejection | [ ] Accept (High priority)<br>[ ] Accept (General priority)<br>[ ] Minor revision<br>[ Y] Major revision<br>[ ] Rejection | Peer-Review:<br>[ Y] Anonymous<br>[ ] Onymous<br>Peer-reviewer's expertise on the topic of the manuscript:<br>[ Y] Advanced<br>[ ] General<br>[ ] No expertise<br>Conflicts-of-Interest:<br>[ ] Yes<br>[ Y] No |

## SPECIFIC COMMENTS TO AUTHORS

In the original article of Zhang et al. the authors aimed to investigate the expression and clinical significance of B7-H3 and B3GALT4 in colorectal cancer to determine their prognostic role. They used CRC patient-derived TMA for a complex IHC study, and they also used SW480 and Caco2 cell lines to determine the B7-H3-dependent mRNA

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and protein expression of B3GALT4 under over- and understimulated B7-H3 conditions. The IHC sudy is of great clinical importance and has several novel findings, namely that B7-H3 is highly expressed in CRC tissue and significantly associated with the depth of tumor invasion, metastasis formation and tumor cell differentiation. The exact aim of the cell line study however is not clear. By using CRC cell lines without immunologically competent microenvironment they found that the over- or underexpression of B7-H3 mRNA and protein by the tumor cells per se influences the expression of B3GALT4 in a postively correlating manner. But the possible explanation of this phenomenon is missing. Is this just a one-way regulation or a reciprocal one? What can be the immunobiological consequence of this findings regarding anti-tumor immunity? This part needs further discussion. After major revision I suggest to reconsider the manuscript for a possible publication in WJG.

**INITIAL REVIEW OF THE MANUSCRIPT**

***Google Search:***

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[ ] Plagiarism

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***BPG Search:***

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[ ] Duplicate publication

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[ Y ] No