

## PEER-REVIEW REPORT

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

**Manuscript NO:** 58059

**Title:** RBBP4 promotes colon cancer malignant progression via regulating Wnt/ $\beta$ -catenin pathway

**Reviewer's code:** 03807842

**Position:** Peer Reviewer

**Academic degree:** NA

**Professional title:** NA

**Reviewer's Country/Territory:** Reviewer\_Country

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-07-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-07-06 13:54

**Reviewer performed review:** 2020-07-15 13:35

**Review time:** 8 Days and 23 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Minor revision <input checked="" 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 checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## **SPECIFIC COMMENTS TO AUTHORS**

In this study, the authors hypothesized that RBBP4 dysregulation could play a role in colon cancer malignant progression via regulating Wnt/ $\beta$ -catenin pathway. The authors started the experiment by testing in colon cancer cell lines and found that RBBP4 was highly expressed in colon cancer cell lines. To study the mechanistic of this, the authors used two colon cancer lines (HCT116, SW620). The authors showed that knockdown of RBBP4 significantly inhibited cell proliferation and surviving mediated apoptosis. The authors also showed that RBBP4 inhibition reduced cell invasion and migration via regulating proteins related to EMT. The experiments indicated that the role of RBBP4 in colon cancer was dependent on Wnt/ $\beta$ -catenin pathway. However, the current manuscript needs some improvement. 1 It is necessary for the authors to perform animal experiments 2 Authors performed the genetic manipulation on the cell lines, do the cell lines changed the morphology to indicate EMT as claimed in the manuscript? 3 Figures 1 and S1 need to be integrated. 4 In rescue experiment, the authors detect the viability and invasion of SW620 and HCT116 cells. It is necessary to examine EMT-related proteins and migration of SW620 and HCT116 cells. 5 In Fig 1.B, where are error bars? 6 In the statistical analysis section, the authors mentioned that the statistical tests were performed by SPSS and Prism? Which one do the authors used? If it is SPSS, what type statistical tests were performed?

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

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**Position:** Peer Reviewer

**Academic degree:** NA

**Professional title:** NA

**Reviewer's Country/Territory:** Reviewer\_Country

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-07-06

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-08-10 08:15

**Reviewer performed review:** 2020-08-11 14:53

**Review time:** 1 Day and 6 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS



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The authors have addressed most my suggested points.