

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 79440

Title: Ubiquitin Ligase TRIM55 promotes metastasis of gastric cancer cells by mediating epithelial-mesenchymal transition

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06286468

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-08-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-08-21 15:21

Reviewer performed review: 2022-08-30 09:07

Review time: 8 Days and 17 Hours

Scientific quality	<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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	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 the work titled "TRIM55 promotes metastasis of gastric cancer cells by mediating epithelial-mesenchymal transition" by Weiwei Li etc., the authors found that TRIM55 expression levels were significantly increased in GC cell lines and tissues, high expression of TRIM55 was correlated with poor prognosis of GC patients, moreover, TRIM55 can regulate the expression of EMT-related proteins in GC cells. This is an interesting study that may add some novel information on the effect of TRIM55 on GC. The work is logically designed, the idea is new and interesting. Although, there are several concerns that need to be addressed. 1. In my opinion, the most obvious weakness of this work is the lack of in-depth mechanism study. The authors should add more mechanism study in the manuscript, or add your research plan at least. 2. The concept of EMT was first reported in embryology area. EMT is a biological process which is of great importance in embryogenesis and organ development. I suggest that the research process and some discoveries of EMT could be added in the discussion or introduction section. Some references could be cited, "EMT Transition States during Tumor Progression and Metastasis", "Exosomes Regulate the Epithelial-Mesenchymal Transition in Cancer" for example, or any other similar references. 3. It seems that the magnification is inconsistent in the Figure1A-D. It is suggested to add a scale in every micrograph. 4. "CASC20" was mentioned in the legend of Figure 1F, please check.

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Reviewer's code: 05754965

Position: Peer Reviewer

Academic degree: PhD

Professional title: Postdoc

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2022-08-21

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Reviewer accepted review: 2022-09-05 16:21

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Review time: 2 Days and 1 Hour

Scientific quality	<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
Language quality	<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
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

In this study, Li et al investigated the role of tripartite motif containing 55 (TRIM55) in gastric cancer progression. They found that TRIM55 was upregulated in GC tissues or cells. By using siRNA or overexpression vector of TRIM55, they showed that TRIM55 promoted GC proliferation. Interestingly, TRIM55 was demonstrated to facilitate GC metastasis by influencing EMT. Here, I have the following concerns. (1) A major issue is that there are currently not many studies about TRIM55 in tumors. There are two studies showing that TRIM55 is a tumor suppressor in lung cancer and liver cancer (PMID: 34974792 and 30685767). How do the authors explain these inconsistencies? These controversial studies should be included in your discussion. (2) GC patient samples are needed to check the expression level of TRIM55 by WB. (3) Animal experiment is needed to show the growth promoting effect of TRIM55. (4) In figure 4B, why are the colors in TRIM55 plasmid group not the same as in other groups? They should be united. (5) The English of the manuscript should be improved. Check this sentence "Tripartite motif containing 55 (TRIM55), a member of TRIM protein, its role in gastric cancer (GC) is unknown." In addition, the tenses of the captions in Results section should be united. (6) The content of this reference "Studies have shown that Mir-30-5-5p can regulate the expression of TRIM55 in SARS-COV infection[7]" is not accurate. Authors need to check and revise it.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Professional title: Postdoc

Reviewer's Country/Territory: United States

Author's Country/Territory: China

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Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2022-09-29 15:31

Reviewer performed review: 2022-10-01 20:38

Review time: 2 Days and 5 Hours

Scientific quality	<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
Language quality	<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
Conclusion	<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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Not applicable.