

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 43472

Title: Novel long non-coding RNA LIN02532 promotes gastric cancer cell proliferation, migration, and invasion in vitro

Reviewer's code: 02742218

Reviewer's country: United Arab Emirates

Science editor: Fang-Fang Ji

Date sent for review: 2018-11-14

Date reviewed: 2018-11-19

Review time: 4 Days

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

SPECIFIC COMMENTS TO AUTHORS

In this study the authors have identified LINC02532 was significantly overexpressed in GC. Analysis showed that patients with higher LINC02532 expression had poorer prognosis than those with lower expression. The correlation analysis between expression

and clinicopathological features revealed that the high expression of LINC02532 was associated with a high TNM stage and poor differentiation grade. Functional assays supported the finding that LINC02532 promoted GC cells proliferation, migration, and invasion. According to the bioinformatics analysis, LINC02532 may sponge downregulated miR-129-5p and miR-490-5p and participate in transcriptional misregulation in cancer, cell cycle, and TGF-beta, and mTOR and p53 signaling pathways. Overall the study was well designed and proves that LINC02532 acted as an oncogene in GC and may be a promising target for the therapy and prognosis management. However use of only bioinformatics to analyze the relationship of LINC02532 with miR and then with mTOR or p53 pathways is a limitation, it is suggested if authors can show western blotting data to support their bioinformatics data. Also, authors have commented cell cycle misregulation, a cell cycle analysis in knock-down samples could support this statement.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 43472

Title: Novel long non-coding RNA LIN02532 promotes gastric cancer cell proliferation, migration, and invasion in vitro

Reviewer's code: 02545023

Reviewer's country: United States

Science editor: Fang-Fang Ji

Date sent for review: 2018-11-14

Date reviewed: 2018-11-26

Review time: 12 Days

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

SPECIFIC COMMENTS TO AUTHORS

The present study by Zhang et al reported a novel LncRNA, LINC02532, which is upregulated in gastric cancer, through analyzing the RNA-seq data from TCGA database. They further performed a series of in vitro studies to characterize its functions and

clinical relevance via RT-PCR, siRNA knock-down, cellular functional assays - cell proliferation, migration, and invasion, as well as bioinformatics analysis, gene ontology and KEGG pathway enrichment analyses. They concluded that LINC02532 acts as an oncogene to promote the tumorigenesis of GC and could be a promising target in the diagnosis, therapy, and prognosis management of GC. The data presented here supported the conclusion. Comments: (1) It has been reported that Linc00483, which is upregulated in GC, also functions as ceRNA to promote gastric cancer cell proliferation, invasiveness and metastasis in vitro and in vivo by absorbing endogenous tumor suppressor miR - 30a - 3p in gastric cancer (Li et al, J Cell Mol Med, 2018). In the siRNA targeting LINC02532 knock-down study, how were the changes, if any, of Linc00483 in these GC cell lines? Was there any compensation involved? (2) In "MATERIALS AND METHODS", under the "Wound healing assay" section, it says "The cells continued to be cultured with serum-free medium for 48 h". Please clarify whether it is complete serum-free or low serum, such as 0.5% or 1% FBS. (3) In the "Transwell migration and invasion assays" section, "A total of 2.0×10^4 cells with 200 μ L of serum-free medium" should be written as "A total of 2.0×10^4 cells with 200 μ L of serum-free medium" (4) In the "RESULTS", under "Functional and KEGG pathway enrichment analyses of target genes" section, the sentence "Identifying the function of these target genes can also benefit the efforts targeting the study of the underlying LINC02532 molecular role" seems hard to understand. It may read better to change to "Identifying the function of these target genes may reveal the novel molecular roles of LINC02532 in GC." (5) For the authors' affiliation of "Fourth Affiliated Hospital of China Medical University", there is a typo for "Affiliated", which should be corrected as "Affiliated".



**Baishideng
Publishing
Group**

7901 Stoneridge Drive, Suite 501,
Pleasanton, CA 94588, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
https:// www.wjgnet.com

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