

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 47504

Title: MicroRNA-331 inhibits development of gastric cancer through targeting MSI1

Reviewer's code: 02446277

Reviewer's country: Romania

Science editor: Ze-Mao Gong

Reviewer accepted review: 2019-03-18 09:33

Reviewer performed review: 2019-03-21 13:00

Review time: 3 Days and 3 Hours

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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In the manuscript "MicroRNA-331 inhibits development of gastric cancer through targeting MSI1" submitted by Leiying Yang et al., authors show that in gastric cancer tissue there is a low expression of miR-331, and an increased expression of the MSI1 gene, both related to poor survival. The authors performed a series of functional studies

demonstrating that miR-331 inhibits cell proliferation, migration, and invasion in vitro, and tumor growth in vivo. Very interesting is the part that demonstrates a direct relation between miR-331 and MSI1, with miR-331 expression negatively regulating MSI1 expression. The study is very good, with a lot of methods and interesting results, however there are several improvements that need to be considered before publication (included in the Comments for authors): the methods section should be completed with absolutely necessary data, some figures and legends needs correction, and additional tests are required for demonstrating the effect if miR-331 on cell adhesion. Also, English spelling should be thoroughly checked. In the following, the points to be revised: 1. Abstract: "qTR-PCR" - to be corrected with qRT-PCR; "CONLUSION" - misspelled word 2. Page 4- Drosophila must be witten with capital letter 3. Methods: Cell transfection - what kind of mimics and inhibitors were used for miR-331 and MSI1? The nucleotide sequence must be provided. 4. Quantitative real-time polymerase chain reaction - primer sequence for miR-331 and MSI1 must be provided 5. Xenograft tumor formation assay - "The xenograft study was approved by the Animal Care and Use Committee of ××". - incomplete phrase 6. Cell migration and invasion assay - the MKN-45 cells were starved prior to invasion assay? 7. The luciferase reporter assay - information about the MSI1 gene: wild type (Ensembl number) and mutated sequence should be provided. Gene 8. Western blot analysis - the antibodies producers should be mentioned 9. Results Fig. 1C, 1D - the cut-off value after which the samples were divided into low vs high miR-331 should be mentioned 10. Results: Fig 2C, 2D - the use of miR-331 mimics for in vivo tests should be mention also in the legend and 2C, 2D figures 11. Results Fig 3D - The adhesion test is not convincing. How do the authors explain that although the ability to migrate and invade decreased when using miR-331 mimics, the same (miR-331 mimics) induce a decrease in cell adherence as well, when normally is the opposite: a decrease in cell adherence is linked to an increased cell



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invasion? The same question for Fig 5F. Testing the E-cadherin and vimentin proteins could be more useful in determining the adhesion level and metastatic potential (PMID: 21684617)

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 47504

Title: MicroRNA-331 inhibits development of gastric cancer through targeting MSI1

Reviewer's code: 03769068

Reviewer's country: Brazil

Science editor: Ze-Mao Gong

Reviewer accepted review: 2019-03-18 23:41

Reviewer performed review: 2019-03-24 20:16

Review time: 5 Days and 20 Hours

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 type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" 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 type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" 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 manuscript "MicroRNA-331 inhibits development of gastric cancer through targeting MSI1" submitted by Leiying Yang et al. is a very good study that demonstrates that MiR-331 might inhibits the development of GC through targeting MSI1. However, some modifications must be done, such as: 1- Change the phrase "The effect of miR-331



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on cell metastasis and tumor growth was illuminated in GC" that describes the aim of the study in abstract by a infinitive verbal form, such as "To illuminate the effect of miR-331 on cell metastasis and tumor growth in GC"; 2- On the phrase "And miR-331 inversely regulated MSI1 expression in GC tissues" in the abstract, I suggest you exchange "And" for "In addition" or "Moreover"; 3- It is necessary to write correctly the name of the animal care and use committee in the topic "Xenograft tumor formation assay".

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 47504

Title: MicroRNA-331 inhibits development of gastric cancer through targeting MSI1

Reviewer's code: 00077340

Reviewer's country: Japan

Science editor: Ze-Mao Gong

Reviewer accepted review: 2019-03-20 00:38

Reviewer performed review: 2019-03-27 02:10

Review time: 7 Days and 1 Hour

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
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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" 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 paper by Leiying Yang, described the Article, "MicroRNA-331 inhibits development of gastric cancer through targeting MSI1". In this report, they demonstrated that MiR-331 inhibited development (metastasis and tumor growth) of GC through targeting MSI1. This is a potentially interesting report, but there are some

issues to be discussed more. The authors should consider the following questions and answer them adequately. 1) The cell lines used for experiments are only 1 cell line (except for Fig1B). Other cell lines of GC should be done the experiments and show the result similarly. 2) In Figure 1, the authors showed the patients data and correlation of miR-331 expression. Also, the authors performed migration and invasion assay to investigate how miR-311 regulates metastasis. So the authors should analysis clinicopathological data (including stage, etc..) and its correlations to miR-331 expression. 3) In Figure 2, the authors demonstrated that miR-331 regulated the tumor growth of MKN-45. The immunohistochemistry examination, for example Ki-67, is strongly recommended.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No