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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 78804

Title: MicroRNA-30e-3p inhibits gastric cancer development by negatively regulating THO complex 2 and PI3K/AKT/mTOR signaling

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00505755
Position: Editorial Board
Academic degree: PhD
Professional title: Senior Research Fellow
Reviewer's Country/Territory: Japan
Author's Country/Territory: China

Manuscript submission date: 2022-07-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-07-19 05:32

Reviewer performed review: 2022-07-21 02:25

Review time: 1 Day and 20 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The study demonstrates that microRNA-30e-3p inhibits gastric cancer development. THO complex2 and PI3K/AKT/mTOR signaling is involved in the inhibition. siTHOC2, a target of microRNA-30e-3p, increases the expression of E-cadherin, and decreases the expression of N-cadhering and Vimentin, which indicates that the knockdown of THOC2 suppresses the maligancy of GC cells.

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Peer-review model: Single blind

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: 2022-07-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-07-22 19:43

Reviewer performed review: 2022-07-24 19:37

Review time: 1 Day and 23 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In this study by Gu et al, authors investigated the role of miR-30e-3p in gastric cancer progression. They found that miR-30e-3p was downregulated in gastric cancer tissues and cell lines. Then they demonstrated miR-30e-3p functioned as a tumor suppressive miRNA. At last, they identified a direct target of miR-30e-3p, THO complex2 (THOC2), suppressing which would impede gastric cancer development. Mechanistically, by regulating THOC2, miR-30e-3p could affect the PI3K/AKT/mTOR pathway. This study is well-presented. Here I have several minor questions for the authors. (1) Mouse experiment is needed to consolidate the major findings in the study. (2) In figure 4B, you can not judge the effect of miR-30e-3p solely on the mRNA alteration of potential target genes, as miRNA majorly function at the translation level. WB is needed to check which target is regulated by miR-30e-3p. (3) In figure 4C, 4E, and 4F, WB is needed to show the change of THOC2 level. (4) In figure 6, restoration assay is needed to show that the effect of miR-30e-3p on gastric cancer cell is via inhibition of THOC2. (5) Molecular weight of the WB band needs to be noted.

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 78804

Title: MicroRNA-30e-3p inhibits gastric cancer development by negatively regulating THO complex 2 and PI3K/AKT/mTOR signaling

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

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: 2022-07-15

Reviewer chosen by: Han Zhang

Reviewer accepted review: 2022-09-05 14:36

Reviewer performed review: 2022-09-05 18:39

Review time: 4 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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

SPECIFIC COMMENTS TO AUTHORS

The authors have addressed my concerns in this version.