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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 86515

Title: Long non-coding RNA CDKN2B-A promotes hepatocellular carcinoma progression via YF transcription factor 1/G protein subunit alpha Z axis

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05562744
Position: Editorial Board
Academic degree: FACS, MD, PhD
Professional title: Professor, Senior Scientist
Reviewer's Country/Territory: Turkey
Author's Country/Territory: China

Manuscript submission date: 2023-06-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-07-07 02:15

Reviewer performed review: 2023-07-11 03:52

Review time: 4 Days and 1 Hour

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [ ] Anonymous [Y] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In brief In HCC tissues, CDKN2B-AS1 was upregulated. Depletion of CDKN2B-AS1 inhibited the proliferation of HCC cells, and the depletion of CDKN2B-AS1 also induced cell cycle arrest and apoptosis. CDKN2B-AS1 could interact with E2F1. Depletion of CDKN2B-AS1 inhibited the binding of E2F1 to GNAZ promoter region. Overexpression of E2F1 reversed the biological effects of depletion of CDKN2B-AS1 on the malignant behaviors of HCC cells. The study was excıtıng to read. he authors performed the Koch's postulates perfectly. I believe the current form of the mansucrıpt is suitable for publication.

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Peer-review model: Single blind

Reviewer's code: 07707345
Position: Peer Reviewer
Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2023-06-23

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-07-28 09:39

Reviewer performed review: 2023-08-28 07:17

Review time: 30 Days and 21 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] 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) [ ] 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 manuscript, Tao et al. report an original research to investigate the role of lncRNA CDKN2B-AS1 in HCC. They concluded that CDKN2B-AS1 overexpression facilitates malignant biological behaviors of HCC cells, such as enhanced viability, proliferation, cell cycle progression and anti-apoptosis ability. This study is very well designed and the findings are very interesting, and within the scope of World Journal of Gastrointestinal Oncology. The methods are clearly described and results are reasonable. However, the following points need to be addressed: 1. There are some grammar errors to be checked and corrected. 2 The reference type needs to be revised according to journal guideline. 3. More detailed figure legends and high-resolution images should be provided, which contribute to a more comprehensive understanding for readers.

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Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00069130
Position: Editorial Board
Academic degree: BM BCh, PhD
Professional title: Academic Fellow, Assistant Professor
Reviewer's Country/Territory: India
Author's Country/Territory: China

Manuscript submission date: 2023-06-23

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-08-20 04:39

Reviewer performed review: 2023-08-29 07:01

Review time: 9 Days and 2 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	[Y] Accept (High priority) [ ] Accept (General priority) [ ] 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

I had trouble viewing some of the details. However, overall, I think this is a reasonable manuscript and may be considered for publication. The authors may rewrite their conclusions and the lacunae of their results/experiments. An in-vivo experiment cannot be conclusive any way considering the evolutionary distance and the fact that many many of these such as LncRNA CDKN2B-AS1 may not have the same function/effect in mice. A knock-out in cell lines or knock out iPSC derived hepatocytes may be a solution-which may be difficult for the authors to carry out. There are several ways the current strategies employed by the authors may lead to wrong conclusions.