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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 71907

Title: LncRNA CAS 0 regulates the metastasis of human gastric cancer cells via the miR-143-5p/MEMO1 molecular axis

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03270609
Position: Editorial Board
Academic degree: PhD
Professional title: Professor
Reviewer's Country/Territory: Russia
Author's Country/Territory: China

Manuscript submission date: 2021-10-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-11-16 08:05

Reviewer performed review: 2021-11-17 09:33

Review time: 1 Day and 1 Hour

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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	[ ] Yes [Y] No

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

SPECIFIC COMMENTS TO AUTHORS

The manuscript presents the study results of the role of lncRNA cancer susceptibility 20 (CASC20) in the progression of gastric cancer. Using cell cultures, the authors showed that CASC20 induces an epithelial-mesenchymal transition in gastric cancer cell culture by regulating MEMO1 expression through competitive endogenous binding to miR-143-5p. It was found that high CASC20 expression correlated with high risk of lymphatic metastases and poor prognosis in patients with gastric cancer. Suppression of CASC20 have been resulted to decreased proliferation, migration, and invasion of gastric cancer cells that open up new therapeutic approaches to the treatment of gastric cancer.

The manuscript is written in a literate, understandable language. Research methods are modern, adequate to the set tasks, described in detail and reproducible. Information search made it possible not only to explain the mechanisms of CASC20 action, but also to optimize ongoing research by identifying the key goals of CASC20 (miR-143-5p, MEMO1). The results of the study are interesting both from the point of view of understanding the mechanisms of progression of gastric cancer and from a practical point of view, since their use in clinical practice will improve the assessment of the prognosis of the disease and individualize the treatment. However, in my opinion, there are several technical inaccuracies in the manuscript that should be corrected. 1. Introduction. I think that the final sentences in the Introduction should be carried over to the Results. Namely, “We found that the CASC20 lncRNA is highly expressed in GC and closely related to lymph node metastasis and poor prognosis of GC patients. Through in vitro and in vivo experiments, we found that CASC20 promotes the proliferation, migration and invasion of GC cells. Mechanistic studies revealed that

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CASC20 “sponges” miR-143-5p and promotes EMT by regulating MEMO1. This function of CASC20 plays an important role in the metastasis of GC. " 2. Statistical analysis It is not entirely clear how legitimate the use of "Two-tailed Student's t-test for detection of differences between two groups." The authors should clarify the methods for determining of the distribution nature of indicators in the compared group. 3. The abbreviations should be carefully checked again. For example, the authors continue to use both the abbreviation GC and the term "gastric cancer" as here: "ARTICLE HIGHLIGHTS Research background Long non-coding RNAs have been indicated to play critical roles in gastric cancer tumorigenesis and progression. However, their roles in gastric cancer remain to be further elucidated. " 4. In table 1, it is desirable to present not only the absolute number of cases, but also the percentage.

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

Manuscript submission date: 2021-10-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-11-18 01:24

Reviewer performed review: 2021-11-18 02:14

Review time: 1 Hour

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

SPECIFIC COMMENTS TO AUTHORS

This study demonstrates the possibility where a long non-coding RNA CASC20 regulates the metastasis of human gastric cancer. Mechanism on up-regulation of MEMO1 might be an interesting topic for the future investigation.