

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 85392

Title: MALAT1 molecular mechanisms in gastric cancer progression

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06132009

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Brazil

Manuscript submission date: 2023-05-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-03 11:19

Reviewer performed review: 2023-05-04 08:10

Review time: 20 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish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

Scientific significance of the conclusion in this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No scientific significance
Language quality	☐ 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) ☒ Minor revision ☐ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript the authors summarized all current knowledge on the association between MALAT1 expression and gastric cancer. Scientific literature is exploring the role of MALAT1 in many pathological processes including cancer and many papers are highlighting its involvement for example in breast, ovarian, prostate cancer. However, research studies on MALAT1 pathways in esophagogastric malignancies are ongoing and there are not many works in the literature, so the authors' analysis is concise but quite comprehensive. In this regard, the authors could add a sentence in the conclusions about the need to increase studies especially on the molecular mechanisms of MALAT1 in the GC to identify targeted therapies. Furthermore, the authors should satisfy these minor points: 1. Pag. 4 in the sentence "As shown in the image above, MALAT1 can modulate endogenous pre-mRNA AS etc." the authors should specify the image as Figure 1. 2. Page 6: The small introductory paragraph on miR-22-3p in the chapter MOLECULAR MECHANISMS OF MALAT1 is quite detached from the rest of the chapter. It should be incorporated in the paragraph on chemoresistance where it is discussed extensively. As a more general introduction the authors could recall which are

the mechanisms of action of MALAT1 reported in the literature and which have been demonstrated more specifically in GC.

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Peer-review model: Single blind

Reviewer's code: 02979917

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

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Reviewer accepted review: 2023-05-04 04:58

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Review time: 4 Days and 8 Hours

Scientific quality	☐ 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 ☐ Grade B: Good ☒ Grade C: Fair ☐ Grade D: No novelty
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Conclusion	☐ Accept (High priority) ☐ Accept (General priority) ☐ Minor revision ☒ Major revision ☐ Rejection
Re-review	☐ Yes ☒ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

This manuscript by Daniel et. al. entitled "MALAT1 molecular mechanisms in gastric cancer progression" aims to summarize the present awareness of MALAT1 in GC. Generally, I think this may be a reference for investigators to study novel biomarkers of gastric cancer. However, some issues I strongly suggest the author may consider to revise. There are some concerns should be addressed. 1. In the paragraph of MALAT1 (page 4), no miRNA-related information has been mentioned in the previous paragraph, so the mechanism of miRNA needs to be introduced first to provide a better reading experience. 2. In the paragraph of angiogenesis (page 8), the mechanism of three pathways is too concise and there is no mention of whether there is a primary or secondary relationship between the three signaling pathways. The authors should discuss a bit of crosstalk between MALAT1 and vasculogenic mimicry. How could these crosstalk contributes to angiogenesis? 3. Add more conjunction words in each section to improve the logic. 4. There should be more explanations and conclusive sentence, instead of simply listing previous works. 5. The line number should be added. 6. There is less content about LncRNAs in the Introduction. Following article might help the

authors and should be included. He, X., Liu, X., Zuo, F., Shi, H., & Jing, J. (2023). Artificial intelligence-based multi-omics analysis fuels cancer precision medicine. *Seminars in cancer biology*, 88, 187–200. <https://doi.org/10.1016/j.semcancer.2022.12.009> Amodio N, Raimondi L, Juli G, et al. MALAT1: a druggable long non-coding RNA for targeted anti-cancer approaches. *J Hematol Oncol*. 2018;11(1):63. Published 2018 May 8. doi:10.1186/s13045-018-0606-4 Yin X, Yang J, Wang H, et al. Non-coding genome in small cell lung cancer between theoretical view and clinical applications. *Semin Cancer Biol*. 2022;86(Pt 3):237-250. doi:10.1016/j.semcancer.2022.03.024