

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 89399

**Title:** CALD1 Facilitates Gastric Cancer EMT Progression by Modulating the PI3K-Akt Pathway

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 07746413

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor, Doctor

**Reviewer's Country/Territory:** Brazil

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-11-22

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-11-28 23:59

**Reviewer performed review:** 2023-12-08 00:01

**Review time:** 9 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Tumor cells may adopt invasive mesenchymal attributes via the EMT process, engendering enhanced motility and invasiveness, alongside diminished adhesion and cell polarity, culminating in metastasis from the primary tumor locus. However, the role and mechanism of CALD1 within the EMT spectrum in GC remains undefined. Thus, this study embarked on elucidating the association between CALD1 and GC through scrutinizing TCGA and GEO databases. Wenqian Ma et al. evaluated CALD1 mRNA and protein expression in GC tissues, examined the correlation between CALD1 expression and clinical pathological attributes, and probed the role and mechanism of CALD1 in GC tissues and cell lines through an amalgam of experimental and bioinformatics analyses. The experiment of the study is designed very well, aims are very clear. Methods are reasonable. Data in tables are very good, and well discussed. Finally, the manuscript also reviewed previous related literature. I suggest adding a description of the limitations of this research. Thank you for giving opportunity to review your study.

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**Reviewer's code:** 07746204

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Doctor, Research Dean

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-11-22

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-11-27 05:44

**Reviewer performed review:** 2023-12-08 00:14

**Review time:** 10 Days and 18 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The authors studied the relationship between CALD1 and gastric cancer by synthesized CALD1-siRNA; transfected gastric cancer cell lines; CCK-8 method; scratch assay and Transwell assay; and the qRT-PCR and Western blot methods. Their study propounds that CALD1, through PI3K–Akt signaling pathway activation, may regulate the EMT process in gastric cancer cells, enhancing their invasive capabilities, thereby presenting a potentially novel target for gastric cancer treatment. Authors adequately described the background, presented status and significance of the study. I have some minor suggestions. Comments 1: The Figure 1D is not clear enough, and they need to replace a more representative picture and to add a statistical result plot. Comments 2: Please unify the font and font size in all Figures. Comments 3: Some figures lack scale bar, and some figures are poorly annotated. Please revise. Comments 4: The discussion should be more about the interpretation of the results rather than repeating the background introduction.