

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Pathophysiology*

Manuscript NO: 82249

Title: The role of T-box transcription factor 3 in gastric cancers

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05469157

Position: Peer Reviewer

Academic degree: MM

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2022-12-14

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-01-24 14:04

Reviewer performed review: 2023-02-05 13:26

Review time: 11 Days and 23 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Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish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

1. The authors list the relations between TBX3 and cancers, which were reported in many papers, but the content of authors' own opinion about this review seems a little thin. 2. To finish a good review needs to read lots of papers, but the majority of references cited in the article are preferring the recent 5 years publishing. It's my own opinion. 3. The Figure 1 is good, but a bit simple, I think. 4. The title is "The role of TBX3 in gastric cancers", but the content concerns many other cancers, and the gastric cancer is a bit short

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Reviewer's code: 03538879

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2022-12-14

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-10 00:12

Reviewer performed review: 2023-02-10 03:01

Review time: 2 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☐ Grade C: Good ☒ Grade D: Fair ☐ Grade E: Do not publish
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SPECIFIC COMMENTS TO AUTHORS

TBX3 is a gene belonging to the T-box family that plays an important role in embryonic, muscle and bone development. In recent years, many studies have found that TBX3 plays an important role in the development of breast cancer and melanoma through EMT, indicating that TBX3 may be a key gene for tumorigenesis. However, there are few studies on its relationship with gastric cancer. This manuscript reviews the functions and regulations of TBX3, as well as its application in breast cancer, melanoma, hepatocellular carcinoma, colorectal cancer, pancreatic cancer and gastric cancer was conducted and the possibility of it being a tumor therapy target was discussed. It is interesting to note the importance of TBX3 gene in future cancer research. Major concerns: 1. More literature needs to be analyzed in order to provide the relationship between TBX3 and tumor heterogeneity as a potential tumor therapy target. For example, in breast cancer, TBX3 promotes tumor progression by inhibiting cellular senescence and promoting EMT, but in melanoma, the overexpression of TBX3 is sufficient to promote tumor formation and invasion. 2. The literature on the relationship between TBX3 and gastric cancer is not sufficient. It seems that TBX3 promotes the progression and invasion of gastric cancer by



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inhibiting aging and enhancing EMT, but at the same time, TBX3 is an important gene that leads to the progression from low-grade intraepithelial neoplasia to high-level intraepithelial neoplasia, indicating that TBX3 may be involved in the early stage of gastric cancer. More evidence is needed to explain the expression of TBX3 in gastric cancer of different causes, such as alcohol consumption and nitrite. 3. Although the existing literature strongly suggests that TBX3 plays a key role in the carcinogenesis related to aging and the progress of gastric cancer, the existing methods and literature are still insufficient, and the content also needs to be further focused.