



## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 81663

**Title:** Novel biomarkers for early detection of gastric cancer

**Provenance and peer review:** Invited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06458345

**Position:** Peer Reviewer

**Academic degree:** N/A

**Professional title:** N/A

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

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

**Manuscript submission date:** 2022-11-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-11-29 15:00

**Reviewer performed review:** 2022-12-11 16:13

**Review time:** 12 Days and 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements	Conflicts-of-Interest: [ ] Yes [Y] No
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### **SPECIFIC COMMENTS TO AUTHORS**

Improving the early diagnosis rate of gastric cancer is one of the main ways to improve the overall prognosis of patients with gastric cancer. Currently, the main screening methods are endoscopy and pathological biopsy, which is difficult to popularize. Therefore, the screening of biomarkers that are easy to detect and have high specificity and sensitivity is a hot issue in recent years. This review also reviews the studies on some novel biomarkers in gastric cancer. The following are my comments for this review:

1. There are many studies and reviews on biomarkers for gastric cancer screening. Please explain the uniqueness of this review compared with other reviews. 2. Morphological detection of diseased gastric epithelial cells has always been the standard means for the diagnosis of gastric cancer. Whether the detection based on biomarkers can completely replace the above methods? 3. Serum tumor markers such as CA724 and CA199 are used for early screening and assessment of disease changes in clinical practice, but their sensitivity and specificity for gastric cancer are still limited. ctDNA, cfDNA and other indicators mentioned in the paper have been showed high diagnostic value. Do their research results have selection bias? Have any prospective clinical trial results been reported? 4. A large number of studies in gastric cancer have suggested that many non-coding RNAs play a crucial role in the occurrence and development of gastric cancer. However, it is very difficult to screen out several key miRNAs or lncRNAs, and the miRNAs or lncRNAs screened for diagnosis by different research teams are different. What's your opinion on this situation?



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**Peer-review model:** Single blind

**Reviewer's code:** 06468657

**Position:** Peer Reviewer

**Academic degree:** N/A

**Professional title:** N/A

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

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

**Manuscript submission date:** 2022-11-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-12 08:40

**Reviewer performed review:** 2022-12-12 11:34

**Review time:** 2 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements	Conflicts-of-Interest: [ ] Yes [ <b>Y</b> ] No
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### **SPECIFIC COMMENTS TO AUTHORS**

Dear editors and reviewers, Thank you for the invitation to submit the manuscript entitled "Novel biomarkers for early detection of gastric cancer". It is well known that the prognosis of progressive gastric cancer is poor. Therefore, early diagnosis and systematic and comprehensive treatment would be beneficial to improve the prognosis of this group of patients. In some parts of China, the majority of patients diagnosed with gastric cancer are already in the progressive stage. The most commonly used diagnostic tests for gastric cancer include endoscopic histopathological examination and imaging, but this also requires the active cooperation of the patient and the experience and skill of the endoscopist to make a definitive diagnosis, but this has limitations for early gastric cancer. The advent of tumor markers may open up new avenues for the diagnosis of early gastric cancer. The authors provide a detailed description of the current state of research and methods for CTCs, cfDNA, noncoding RNAs, exosomes, DNA methylation, and STOMACH SPECIFIC BIOMARKER. Thus, the detection of new biomarkers for the early diagnosis of GC will be a potential therapeutic strategy to improve the survival prognosis of patients. This latest biomarker information will contribute to further research and development of GC biomarkers and clinical applications.



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**Provenance and peer review:** Invited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05754263

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2022-11-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-12 02:48

**Reviewer performed review:** 2022-12-17 06:52

**Review time:** 5 Days and 4 Hours

<b>Scientific quality</b>	<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
<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
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statements	Conflicts-of-Interest: [ ] Yes [Y] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

1.Develop detailed inclusion and exclusion criteria. 2.The content of the paper is simplified and descriptive statements are reduced.



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**Peer-review model:** Single blind

**Reviewer's code:** 05381979

**Position:** Editorial Board

**Academic degree:** Doctor, PhD

**Professional title:** Director, Professor, Surgeon

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

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

**Manuscript submission date:** 2022-11-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-16 07:27

**Reviewer performed review:** 2022-12-19 03:59

**Review time:** 2 Days and 20 Hours

<b>Scientific quality</b>	<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
<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
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### **SPECIFIC COMMENTS TO AUTHORS**

This study provides a comprehensive overview of relevant detection techniques for gastric cancer, and the content is relatively rich. However, there are also the following problems: 1. There are too many references cited, and the IF of the references is not high, please delete them appropriately; 2. There are too many tables in the manuscript, please delete them appropriately; 3. The author does not list Please make appropriate additions to the application status of MRD technology in gastric cancer; 4. Please add more relevant mechanism diagrams instead of listing tables.