PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63287

Title: Recent advances in blood-based and AI-enhanced approaches for gastrointestinal cancer diagnosis

Reviewer's code: 00068458

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor, Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: China

Manuscript submission date: 2021-01-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-09 22:50

Reviewer performed review: 2021-04-19 03:33

Review time: 9 Days and 4 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors have reviewed good studies for applications of blood-based liquid biopsy and AI-enhanced approaches in gastrointestinal cancers and have submitted a well-written manuscript. It has great value in improving the diagnosis and treatment of gastrointestinal cancers.   Comment It will be very helpful to review the sensitivity and specificity of liquid biopsy approaches in the diagnosis of gastrointestinal cancers. In addition, tabulating the given data will be easy to understand.

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] 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 [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Li et al. reviewed the recent advances in the diagnosis of gastrointestinal cancer. Although the title is very broad, the text mainly mentions CRC and HCC. Other tumors are mentioned in the text merely. It is also not clear on the basis of which criteria the authors mentioned some of the articles in the text. There are far more recent studies worldwide. There are a far more blood-based biomarkers that have not been mentioned. The authors also often mention liquid biopsy, but focused only on plasma, while the results regarding stool are not mentioned. Overall, the aim of the review is not clear and novelty should be highlighted. Minor: Figure 1 the text is incorrectly divided in the bubble - extracellular vesicles Figure 2 the legend described abbreviations that are not used in the figure Row 222 Exomes – exosomes In the Artificial intelligence-enhanced algorithms – CRC abbreviations shall be used instead of colorectal cancer

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 63287

Title: Recent advances in blood-based and AI-enhanced approaches for gastrointestinal cancer diagnosis

Reviewer's code: 05049885

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Czech Republic

Author's Country/Territory: China

Manuscript submission date: 2021-01-27

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-06-07 07:21

Reviewer performed review: 2021-06-07 08:13

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] 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	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I dont have further questions.