PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 80175

Title: Transcriptome Analysis Creates a New Era of Precision Medicine for Managing Recurrent Hepatocellular Carcinoma

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00504362

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Chile

Author's Country/Territory: Taiwan

Manuscript submission date: 2022-10-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-18 15:05

Reviewer performed review: 2022-10-26 18:16

Review time: 8 Days and 3 Hours

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [ ] Accept (General priority) [ ] 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

This is a very interesting, updated, and well-written manuscript highlighting a crucial point in cancer diagnosis. In spite of the huge advance in OMICs techniques and particularly in transcriptomics current diagnostic and monitoring guidelines in HCC are still based on conventional methods such as AFP quantitation and imaging assessments.   But I think that this manuscript brings another message; it is time to move toward the next generation of diagnostic tools in modern medicine, most of them are available, and validated.   In this regard, the only point I recommend is to add a new paragraph just denoting that now the limitation is not the technology, the   main limitation is to count with proper health policies and a critical mass of physicians who know the scope, and the relevance of   Omics techniques, which can provide today a direct benefit for patients in many diseases including cancer.

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] 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 [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

In this manuscript, the authors summarized some findings yielded with these transcriptome methods of for managing recurrent hepatocellular carcinoma. However, there're some issues which should be addressed. 1. Most of the contents and conclusions have been reported. Please explain the novelty of this manuscript in detail. 2. Some of the content is basic knowledge and should be deleted or reduced substantially, especially the introductory and technical content on PCR, Micaoarray, and RNA-Seq Analysis. Quantitative Reverse Transcription Polymerase Chain Reaction Analysis of Recurrent HCC; 3. Important references (authors, research content, results, important research methods, etc.) should be listed in some tables. Major revision should be recommended.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03769712

Position: Editorial Board

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Taiwan

Manuscript submission date: 2022-10-17

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-11-04 02:35

Reviewer performed review: 2022-11-04 09:47

Review time: 7 Hours

Scientific quality	[ ] Grade A: Excellent [Y] 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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Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This review details how various transcriptome profiling methods have contributed to our understanding of recurrent HCC with respect to the carcinogenicity of primary cancer cells, carcinogenic stimuli, and tumor microenvironments. The results are true and authentic. The author scientifically and reasonably cite the latest references which are important in this field and related to the scientific problems and research hypotheses addressed in the study. The language in article correctly, clearly and concisely express the information.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

statements	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

All the questions have been answerd and the revised version is better than the orginal one. So, acceptance should be recommended for this manuscript.