

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 81807

Title: A Comprehensive Analysis of Prognostic Value and Immunotherapy Prospect of BCYRN1 in Hepatocellular Carcinoma

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06309843

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-11-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-24 16:13

Reviewer performed review: 2022-12-04 15:43

Review time: 9 Days and 23 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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	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

This article mainly to explore the prognostic value and immunotherapeutic potential of BCYRN1 in HCC. Confirm that BCYRN1 expression was linked to tumor microenvironment score, immune cell infiltration level, some drug sensitivity and immunotherapy efficacy. The article is innovative and reasonable, but there are several small suggestions for correction. 1. There are too many diagrams in the paper. Therefore, it is suggested to put the non-main chart into the supplementary material. 2. The words "the results" are mentioned several times in the article, and it is suggested to correct to "the result". 3. There are many grammatical errors in the article. It is suggested to ask professional English speakers to polish the language. 4. The process of meta-analysis is not reflected, so it is suggested to add content to the part of methods.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04216216

Position: Peer Reviewer

Academic degree: MD

Professional title: Academic Fellow

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2022-11-24

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-01-17 15:37

Reviewer performed review: 2023-01-18 17:09

Review time: 1 Day and 1 Hour

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
Scientific significance of the conclusion in 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 scientific significance
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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

In this paper the Authors analyzed, using bioinformatics and a metanalysis, the prognostic and therapeutic role of BCYRN1 in patients with hepatocellular carcinoma (HCC). The high expression of this lncRNA was associated with a poor prognosis and clinicopathological progression of HCC. Moreover, the BCYRN1 expression was linked to chemosensitivity and immunotherapy response. So, the Authors concluded that it could be used as prognostic marker for HCC patients. The study is well conducted and several aspects of BCYRN1 were analyzed, such as correlation with the expression of other oncogenes, with immune cell in extracellular matrix and many others, but I have some comments: 1. The Authors showed that the expression of BCYRN1 was higher in HCC tissue compared to healthy liver. The HCC developed, in the 90% of cases, on cirrhotic liver and it is often the evolution of preneoplastic lesions. So, was analyzed the expression of BCYRN1 in the peritumoral tissue (cirrhotic liver)? I think that it could be



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a useful information to establish if BCYRN1 expression increase in cirrhotic tissue compared to controls and could be used as diagnostic marker. Please explain if it is possible to extrapolate this information from the database. 2. The Authors concluded that BCYRN1 expression was correlated with histological grade, but in the figure 3C seems the expression increased in G2 and G3 stages, but returns to lower levels in G4 stage, not significantly different from the G1 stage. How the Authors explain this result? I think that should be better discussed in the text 3. The high expression of BCYRN1 seems to be associated with a poor prognosis, but the chemosensitivity of HCC seems higher in the group with BCYRN1 expression. This result seems to be countersense. How the Authors explain it?

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 04216216

Position: Peer Reviewer

Academic degree: MD

Professional title: Academic Fellow

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

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Reviewer chosen by: Han Zhang

Reviewer accepted review: 2023-02-22 13:13

Reviewer performed review: 2023-02-24 16:06

Review time: 2 Days and 2 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
Language quality	<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
Conclusion	<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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

none