

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 45299

Title: Mechanism of exosomal microRNA-224 in the development of hepatocellular carcinoma and an evaluation of its diagnostic value

Reviewer's code: 02953994

Reviewer's country: Japan

Science editor: Ruo-Yu Ma

Date sent for review: 2018-12-27

Date reviewed: 2019-01-07

Review time: 17 Hours, 10 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting study. The manuscript is very well written. In this study, Cui Yao et al evaluated the mechanism of exosomal miRNA-224 in the development of HCC and its diagnostic and prognostic value for HCC patients. The methods are detail described



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and the results are very interesting. The authors found that the serum exosomal miR-224 does have some ability to differentiate patients with HCC from healthy controls, with an AUC of 0.910, and HCC patients with higher serum exosomal miR-224 expression had lower overall survival. And the results showed that the exosomal miR-224 can inhibit the expression of GNMT and may be used as a marker for the diagnosis and prognosis of patients with HCC. 1 In table 1, how about the P value about the Cirrhosis, T classification and Tumor size? 2 Figures are very good and interesting. 3 The references are updated and well discussed. 4 Some minor language revisions are required.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Duplicate publication
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- ☐ No

PEER-REVIEW REPORT

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Reviewer's code: 02953927

Reviewer's country: Australia

Science editor: Ruo-Yu Ma

Date sent for review: 2018-12-27

Date reviewed: 2019-01-11

Review time: 19 Hours, 14 Days

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			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Very interesting study about the biomarkers related to the development of HCC. Nucleic acids in exosomes are another molecule that can act as a biomarker. There are many reports on exosomal miRNA, which is an ideal biomarker for the early diagnosis of



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cancer. However, there are few reports on the role of exosomal miRNAs in the diagnosis and prognosis of HCC. In this study, the authors found that the biomarkers can be used for the diagnosis and prognosis of HCC. Overall, the study is well designed, and the manuscript is excellent. 1 The title reflects the main subject of the manuscript. 2 Methods are described in adequate detail. 3 The research objectives are achieved by the experiments used in this study. 4 The results are well discussed. The most recent references are listed and discussed also. 5 Are there any limit for this study? The authors can make a statement about the limit of the study, and make further research in the future. 6 Some minor language polishing should be checked and corrected.

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PEER-REVIEW REPORT

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Manuscript NO: 45299

Title: Mechanism of exosomal microRNA-224 in the development of hepatocellular carcinoma and an evaluation of its diagnostic value

Reviewer's code: 02953931

Reviewer's country: Japan

Science editor: Ruo-Yu Ma

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Date reviewed: 2019-01-11

Review time: 19 Hours, 14 Days

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SPECIFIC COMMENTS TO AUTHORS

The manuscript is very well written. Interesting findings which is useful to the clinicians.

I have no specific comments.



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