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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 29695

Title: Reprogramming of glucose metabolism in hepatocellular carcinoma: Progress and Prospects

Reviewer's code: 00051373

Reviewer's country: Taiwan

Science editor: Ze-Mao Gong

Date sent for review: 2016-08-27 14:21

Date reviewed: 2016-08-27 21:19

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

The current editorial is wonderful written and extensive explore the regulatory mechanism of glucose metabolism and the non-coating microRNA in the development of hepatocellular carcinoma. In my opinion, it should be accepting to publish without alter.



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 29695

Title: Reprogramming of glucose metabolism in hepatocellular carcinoma: Progress and Prospects

Reviewer's code: 03489187

Reviewer's country: Japan

Science editor: Ze-Mao Gong

Date sent for review: 2016-08-27 14:21

Date reviewed: 2016-09-05 08:32

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The authors reviewed the recent investigations of glucose metabolism in HCC and summarize the regulation mechanisms of metabolic reprogramming. They also described the development of HCC therapy by targeting glucose metabolism. This article would provide arranged recent information about reprogramming of glucose metabolism in HCC to the readers. For better understanding, rewriting some unclear and incomplete descriptions is needed in this article. Major point (1) In the session "Oncogenes and tumor suppressor genes involved in glucose metabolic reprogramming during carcinogenesis", please prepare a new table summarizing oncogenes and cancer suppressor genes with their target genes. (2) Please prepare the legend for Figure 1. Put an ascending or downward arrow beside each modulated protein in the figure. Minor point This Manuscript is a Review article, not Editorial. Abstract: (3) First paragraph, lines 7-10. This sentence seems incomprehensible. Please rewrite clearly with terms genetic mutations, epigenetic modulations including non-coding RNAs, oncogenes, tumor suppressor genes, signaling pathways, and glycolytic enzyme protein etc. Introduction: (4) Second paragraph, line 1. Is 1920 correct? Reference by



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Warburg [reference 4] was published in 1956. (5) Second paragraph, lines 6-11. These sentences seem redundant. Please delete. (6) Second paragraph, lines 17-20. Please list references. Reprogramming of gene metabolism-related enzymes and carrier protein in HCC: (7) They used the term “carrier proteins” in the title and text. It might cause misunderstanding. I think “transporting proteins” is appropriate. (8) Second paragraph, lines 10-11. This sentence is unclear: “...prognostic significance of positive GLUT2 expression in HCC”? (9) Third paragraph, lines 10-11. This sentence seems incorrect and being overstated. Reference 29 comprises clinical study and in vitro experiments. Repression of Wnt/beta catenin pathway was not proved directly in this article. “...inhibited HCC cellular proliferating and migration in vitro, probably by repression of ...”. Oncogenes and tumor suppressor genes involve in glucose metabolic reprogramming during carcinogenesis: (10) Please introduce oncogenes (definition, classification and activation) briefly in the beginning of the first paragraph. (11) First paragraph, line 8. Please correct GAPD to GAPDH. (12) First paragraph, lines 22-25. In Ref. 66, CD147 facilitate MCT1-mediated lactate export in HCC, which seems conflict to Ref.52 (MCT1 was reduced in HCC. Please comment about this discrepancy. Signaling pathways involved in glucometabolic reprogramming: (13) First paragraph, line 4. The term “oxidative metabolism” is unclear. “oxidative phosphorylation” would be more appropriate. (14) First paragraph, line 4. Please change the word “reverse” to more appropriate (clear meaning) one. (15) In the first paragraph, authors described AMPK pathway. Are there any studies investigating AMPK signaling pathway in HCC cells? (16) First paragraph, lines 19-20. Is the statement “glycolytic carriers and enzymes” OK? “Glucose transporters and glycolytic enzymes” would be more appropriate. (17) Second paragraph, line 7. The term “relies on” is unclear. Please change to other appropriate word(s). Advance in HCC therapy by targeting glucose metabolism. (18) Lines 2 and 5. According to the title, the use of “HCC” (not “cancer”) would be more clear. Flavonoids (19) First paragraph, line 3. What is phlorein? Please describe briefly. Conclusion (20) Please rewrite more concisely. For example, lines 1-6 are not necessary.



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 29695

Title: Reprogramming of glucose metabolism in hepatocellular carcinoma: Progress and Prospects

Reviewer's code: 01453976

Reviewer's country: United States

Science editor: Ze-Mao Gong

Date sent for review: 2016-08-27 14:21

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

This is an excellent manuscript reviewing the advances in the understanding of the reprogramming of glucose metabolism in hepatocellular carcinoma and its associated applications in potential therapeutics. The manuscript was well written. The literature was cited appropriately. This current version of the manuscript is acceptable for publication.