

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47404

Title: Expression of genes that control core fucosylation in hepatocellular carcinoma:
Systematic review

Reviewer's code: 03647483

Reviewer's country: China

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-24 10:12

Reviewer performed review: 2019-03-24 10:41

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input checked="" 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 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

Norton et al's study focused on the expression of genes that control core fucosylation in hepatocellular carcinoma. They performed a PubMed biomedical literature and systematic review and conducted a TCGA data mining based on six genes (FPGT, FUK,



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FUT8, GMDS, SLC35C1, TSTA3) known to be involved in the attachment of core fucosylation, the synthesis of the fucosylation substrate GDP-fucose, or the transport of the substrate into the Golgi might offer mechanistic insight into the regulation of core fucose levels. Finally, they found that amplification of the genes involved in the de novo pathway for generation of GDP-fucose, GMDS, and TSTA3, is a likely contributor to the elevated core fucose observed in hepatocellular carcinoma. Generally speaking, the design of the review is very meticulous and novel. Furthermore, the review is of significance in elucidating the molecular mechanism of controlling the production of core fucosylated proteins in hepatocellular carcinoma patients.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47404

Title: Expression of genes that control core fucosylation in hepatocellular carcinoma:
Systematic review

Reviewer's code: 02929648

Reviewer's country: China

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-25 01:06

Reviewer performed review: 2019-03-25 01:35

Review time: 1 Hour

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 type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Good paper, but it is necessary to provide the reference of figures.

INITIAL REVIEW OF THE MANUSCRIPT



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Google Search:

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- ☐ No

BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47404

Title: Expression of genes that control core fucosylation in hepatocellular carcinoma:
Systematic review

Reviewer's code: 02445571

Reviewer's country: China

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-15 00:46

Reviewer performed review: 2019-03-30 06:16

Review time: 15 Days and 5 Hours

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 checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input 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 type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input checked="" type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In this paper, the author reviewed the six genes expression that involved in core fucosylation of hepatocellular carcinoma (HCC). The author concluded that GDP-fucose, GMDS, and TSTA3 were contributor to the elevation of core fucose in the HCC. The



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information which the author reviewed regarding the glycometabolism, in particular core fucosylation, in HCC development is a new area and raising more attention recent years. Therefore, this work is meaningful and will draw more reader's attention. The weak point is the result sections, the data described less concentration and logically unclear, needs to be well organized. The references also need to be updated.

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- ☐ No

BPG Search:

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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47404

Title: Expression of genes that control core fucosylation in hepatocellular carcinoma:
Systematic review

Reviewer's code: 00070109

Reviewer's country: China

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-04-01 08:11

Reviewer performed review: 2019-04-01 08:36

Review time: 1 Hour

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 checked="" 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript, the authors focused on core fucose related genes in HCC. The authors performed a review of the literature and related bioinformatic review to address this issue. The language is well presented and the manuscript is well organized. I just



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suggest the authors can renew some of the citations. Besides, in page 4 line 7, it is supposed to be expressed as “associated with”.

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- ☐ No