



**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 51726

**Title:** The promising key genes associated with tumor microenvironment and prognosis of hepatocellular carcinoma

**Reviewer's code:** 00053659

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor, Surgeon

**Reviewer's country:** Japan

**Author's country:** China

**Reviewer chosen by:** Jin-Zhou Tang

**Reviewer accepted review:** 2019-10-11 13:52

**Reviewer performed review:** 2019-10-11 15:52

**Review time:** 2 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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input 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 checked="" 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 checked="" 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**



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Pan L et al. investigated to analyze several databases to identify a prognostic profile of the gene expressions using the ESTIMATE algorithm. They identified that ten key genes (STSL2, TMC5, DOK5, RASGRP2, NLRC3, KLRB1, CD5L, CFHR3, ADH1C, and UGT2B15) constructed a prognostic gene signature. They claimed that one of the ten key genes might be a candidate for targeted molecular therapy in the future. The analysis is quite unique and seems to be interesting. The only concern is that the clinical information of the data set was unclear. The etiology of the HCC is very unique, depending on viral status. I have no idea how the data provided in detail. However, the essential clinical background should be presented, such as viral status, liver functional status, and tumor status. The AUC of the model seems to be similar even though the value was higher than the conventional TNM stage. It is very hard to evaluate any clinical benefit of this study without clinical characters. Therefore, I am quite skeptical about their conclusion was that the results presented the future molecular target under the current results. A comparison of the AUC among their model and TNM stage should analyze multiple comparisons of the ROC analysis.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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##### ***BPG Search:***

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**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 51726

**Title:** The promising key genes associated with tumor microenvironment and prognosis of hepatocellular carcinoma

**Reviewer’s code:** 03724953

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Doctor, Surgeon

**Reviewer’s country:** Taiwan

**Author’s country:** China

**Reviewer chosen by:** Jin-Zhou Tang

**Reviewer accepted review:** 2019-10-21 01:50

**Reviewer performed review:** 2019-10-28 12:05

**Review time:** 7 Days and 10 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 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**



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In this study, Long Pan and colleagues analyzed The Cancer Genome Atlas (TCGA) in the aspect of genes associated with tumor microenvironment and prognosis of hepatocellular carcinoma. With the usage of ESTIMATE algorithm method, it would be possible to deeply investigate the gene expression according to the cell types in target tissue. Generally, the results are interesting and the methods are reasonable. The manuscript is well prepared and the figures are well illustrated. The major question, which might also be the limitation, is the method in identifying the genes for predicting prognosis. It seems that the clinical stage and other well known risk factors are not adjusted in this model. Would it be possible to do the multivariate analysis?

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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##### ***BPG Search:***

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**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 51726

**Title:** The promising key genes associated with tumor microenvironment and prognosis of hepatocellular carcinoma

**Reviewer's code:** 00054255

**Position:** Editor-in-Chief

**Academic degree:** MD, PhD

**Professional title:** Professor

**Reviewer's country:** South Korea

**Author's country:** China

**Reviewer chosen by:** Jin-Zhou Tang

**Reviewer accepted review:** 2019-10-21 09:56

**Reviewer performed review:** 2019-11-01 07:12

**Review time:** 10 Days and 21 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 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
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This is pure bioinformatics/biostatistics work using data opened publically. To pick out significant genes from the database, authors should verify each genes in vitro/in vivo using their own samples The phrase of introduction in the abstract is to be revised, language matter. significant, urgent demanded is not appropriate

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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- Duplicate publication
- Plagiarism
- No

##### ***BPG Search:***

- The same title
- Duplicate publication
- Plagiarism
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