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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Hepatology

**Manuscript NO:** 44797

**Title:** New insights into molecular mechanisms of chemoresistance in hepatocellular carcinoma

**Reviewer's code:** 02523682

**Reviewer's country:** China

**Science editor:** Jin-Lei Wang

**Date sent for review:** 2018-12-27

**Date reviewed:** 2019-01-06

**Review time:** 12 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 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

The authors described that modulation of ABC transporter and/or autophagy-related gene expression or function by miRNAs could be determinant for HCC chemoresistance. Especially, they emphasized that miRNAs may regulate the biological processes,



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signaling pathways and/or molecular mechanisms in HCC therapy, and thus miRNA-based therapy together with conventional chemotherapeutic drugs has a great future in cancer therapy. However, some suggestions should be considered. The abstract should be modified and more concise according the main content of this manuscript: miRNA functions in HCC chemoresistance. The title “New insights into molecular mechanisms of chemoresistance in hepatocellular carcinomais” seems to be big and not specific, and is not consistence to the main content of this manuscript, and should be revised. Actually, autophagy plays very important role in tumorigenesis, metastasis, targeted therapy and drug resistance of HCC (World J Gastroenterol. 2018, 24(41):4643-4651). In addition, autophagy is also important mediator for oncolytic virotherapy for HCC (Biochem Biophys Res Commun. 2017, 491(2):469-477).

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

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

- The same title
- Duplicate publication
- Plagiarism
- No

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

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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Hepatology

**Manuscript NO:** 44797

**Title:** New insights into molecular mechanisms of chemoresistance in hepatocellular carcinoma

**Reviewer's code:** 03656580

**Reviewer's country:** China

**Science editor:** Jin-Lei Wang

**Date sent for review:** 2019-01-14

**Date reviewed:** 2019-01-15

**Review time:** 17 Hours

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

The precise mechanisms regarding miRNA involvement in resistance will lead us to find new ways of making HCC treatment more effective. The development of miRNAs, miRNAs mimics or anti-miRNA with long half lives and their use in combination with



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chemotherapeutic drugs could be a powerful option. Undoubtedly, more insights on the biological processes, signaling pathways and/or molecular mechanisms regulated by miRNAs are needed. Anyway, miRNA-based therapy together with conventional chemo-therapeutic drugs has a great future in HCC therapy.

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

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- No