



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47108

Title: MiR-34a overexpression enhances the inhibitory effect of doxorubicin on HepG2 cells

Reviewer's code: 03011870

Reviewer's country: Netherlands

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-20 03:22

Reviewer performed review: 2019-03-27 10:27

Review time: 7 Days and 7 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	(General priority)	Peer-reviewer's expertise on the topic of the manuscript:
<input type="checkbox"/> Grade E: Do not publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Minor revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Major revision	<input type="checkbox"/> General
		<input type="checkbox"/> Rejection	<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 about the effect of miR-34a expression on the growth inhibition of HepG2 cells by doxorubicin. In recent years, with the continuous improvement of surgical techniques and increase in proficiency of surgeons, the efficacy



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of surgical treatment for HCC has come close to its limit, which makes it difficult to continue to improve the prognosis of HCC with surgery. Like other malignant tumors, multidisciplinary treatment has become the primary means of HCC treatment, with chemotherapy being the most important alternative to surgery. However, early clinical experience shows that systemic chemotherapy is not effective for HCC, and drug resistance is the most important reason for the insensitivity of HCC to chemotherapy. Then, research on chemotherapy resistance and sensitization has become one of the hot spots. As a highly conserved miRNA, miR-34 plays an important role in cells. In this study, lentiviral vector was used to upregulate expression of miR-34a in HepG2 cells, the relationship between miR-34a expression and chemosensitivity of HepG2 cells to doxorubicin are observed, and the mechanism of their interaction is explored. Overall, this study is well designed, the manuscript is very well written. The results are very interesting, and well discussed with recent references. Only some minor language polishing should be corrected.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
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BPG Search:

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[Y] No



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47108

Title: MiR-34a overexpression enhances the inhibitory effect of doxorubicin on HepG2 cells

Reviewer's code: 03024280

Reviewer's country: United States

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-20 03:23

Reviewer performed review: 2019-03-27 10:29

Review time: 7 Days and 7 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 polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good		<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	(General priority)	Peer-reviewer's expertise on the topic of the manuscript:
<input type="checkbox"/> Grade E: Do not publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Minor revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Major revision	<input type="checkbox"/> General
		<input type="checkbox"/> Rejection	<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Very interesting study. The study is well designed and the results are very clear and interesting. The figures are very informative. I have no special comments.



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INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47108

Title: MiR-34a overexpression enhances the inhibitory effect of doxorubicin on HepG2 cells

Reviewer's code: 03660347

Reviewer's country: Finland

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-14 23:25

Reviewer performed review: 2019-03-27 10:32

Review time: 12 Days and 11 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 polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	(General priority)	Peer-reviewer's expertise on the topic of the manuscript:
<input type="checkbox"/> Grade E: Do not publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Minor revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Major revision	<input type="checkbox"/> General
		<input type="checkbox"/> Rejection	<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Very interesting study. Manuscript well written. The effect of miR-34a expression on the growth inhibition of HepG2 cells by doxorubicin is well investigated. Methods are listed in detail, and the results are well discussed. Some minor language polishing should be



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