

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 44583

Title: Ursodeoxycholic acid ameliorates lipid metabolism by regulating the AKT/mTOR/SREBP-1 signalling pathway

Reviewer's code: 02541409

Reviewer's country: Spain

Science editor: Ruo-Yu Ma

Date sent for review: 2018-12-19

Date reviewed: 2018-12-19

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 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 checked="" 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 checked="" 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 manuscript is well-written but somewhat disappointing by the lack of ambition. This is surprising because their findings are limited to a simple cell model. Considering the conclusions, a more precise and extensive approach to the AMPK/mTOR driven



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pathways should be considered.

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: 44583

Title: Ursodeoxycholic acid ameliorates lipid metabolism by regulating the AKT/mTOR/SREBP-1 signalling pathway

Reviewer's code: 02541260

Reviewer's country: Turkey

Science editor: Ruo-Yu Ma

Date sent for review: 2018-12-19

Date reviewed: 2018-12-23

Review time: 7 Hours, 4 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 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 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

Overall the manuscript is well written and the authors have well organized and excellently collected, provided and discussed their findings, however there are some typing and writing errors in the manuscript. Authors should correct them. In the



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literature, the effects of UDCA on NAFLD in the clinic, and especially on liver histology is limited. The authors should discuss this issue in the discussion.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 44583

Title: Ursodeoxycholic acid ameliorates lipid metabolism by regulating the AKT/mTOR/SREBP-1 signalling pathway

Reviewer's code: 02444949

Reviewer's country: South Korea

Science editor: Ruo-Yu Ma

Date sent for review: 2018-12-19

Date reviewed: 2019-01-03

Review time: 1 Hour, 15 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
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publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" 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 authors investigated the effect of ursodeoxycholic acid (UDCA) on nonalcoholic fatty liver disease (NAFLD) using Lo2 cells treatment with oleic acid. They suggested that UDCA may ameliorate hepatic steatosis via regulation of AKT/mTOR/SERBP-1

pathway. This study is interesting but cannot be published as it is. Manuscript should be discussed clearly and will need extensive editing. Major comments 1. Title: 'lipid metabolism' should be changed to reflect the main result of the study. 2. Figure 2: There is no significant change between OA group and UDCA group. Thus UDCA did not reduced triglyceride contents. How do you can explain the phenotype? Author should logically revise the discussion. 3. Please check statistics and present in figures. They are very confusing and difficult interpretation. 4. UDCA directly regulate cholesterol metabolism. Did you determine SERBP-2? 5. Rewrite clearly abstract to summarize and reflect the results. Minor comments 1) Figure 2-D y axis: insert unit. 2) Figure 3 & 4: What is mean $hp < 0.01$? 3) Unify unit in entire manuscript. (ex. mL vs. ml) 4) Correct typing errors (ex, CO₂, oil red O....) and leaving space.

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