

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 44668

**Title:** Underlying effects of apoptosis on liver Aging

**Reviewer's code:** 00503561

**Reviewer's country:** Japan

**Science editor:** Xue-Jiao Wang

**Date sent for review:** 2018-11-26

**Date reviewed:** 2018-11-27

**Review time:** 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" 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 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

"However, polyploid cells exhibited less survival opportunity compared with liver cells. If excessive polyploid cells are present, and renewing cells are lacking, failure may occur during liver damage. Given that polyploid cells are eliminated through apoptosis to avoid liver failure, apoptosis is deemed to protect liver aging."(page 7, first paragraph)



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This is a very interesting statement. Add the reference or if this is their own theory, explain more. Minor comments 1. Brown atrophy (senile atrophy) is usually not associated with liver dysfunction. Does the authors insight explain this phenomenon from the stand point of apoptosis and polyploidy? 2. Non-alcoholic fatty liver seems to be related to aging. Any epidemiological data on that? 3. You do not include massive hepatic necrosis (such as so called fulminant hepatitis or acute yellow atrophy, classical example of expensive apoptosis related disease process).

#### **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 Clinical Cases

**Manuscript NO:** 44668

**Title:** Underlying effects of apoptosis on liver Aging

**Reviewer's code:** 00646291

**Reviewer's country:** United Kingdom

**Science editor:** Xue-Jiao Wang

**Date sent for review:** 2018-11-27

**Date reviewed:** 2018-12-06

**Review time:** 9 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 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 review is detailed and informative. Some more figures would make the reading easier and the understanding of the complicated pathways involved in the process of apoptosis and the development of the liver diseases more accessible to the non-expert reader. The obvious ones would be the pathways leading to the development of the



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diseases mentioned in the review (NAFLD, liver fibrosis, cirrhosis, liver cancer) but the mitochondrial fusion and fission and its involvement in apoptosis in the liver could also be considered for inclusion. The future directions section needs to be expanded Some pathways are explained in extensive detail but some others are mentioned briefly (ER stress, UPR, Sirt7). Minor grammatical errors throughout the review should be corrected.

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

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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 44668

**Title:** Underlying effects of apoptosis on liver Aging

**Reviewer's code:** 02440884

**Reviewer's country:** Germany

**Science editor:** Xue-Jiao Wang

**Date sent for review:** 2018-12-03

**Date reviewed:** 2018-12-06

**Review time:** 3 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 type="checkbox"/> Grade B: Minor language	(High priority)	<input 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 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 type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

In the review important mechanisms of apoptosis on liver aging are addressed. A focus is given on hepatocytes. Comments 1. Aging of other cell types than hepatocytes should be addressed. Especially the homing of immune cells in aging should be discussed. 2. References: first reference should be proofed.



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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 44668

**Title:** Underlying effects of apoptosis on liver Aging

**Reviewer's code:** 00607640

**Reviewer's country:** Taiwan

**Science editor:** Xue-Jiao Wang

**Date sent for review:** 2018-12-03

**Date reviewed:** 2018-12-08

**Review time:** 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:
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<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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			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

The authors review the roles of apoptosis in liver aging and age-related liver diseases. The article implicates that apoptosis and aging play a central role in the occurrence, development, and treatment of age-related liver diseases. It is suitable to the Journal and could be helpful in clinic application.



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