

## PEER-REVIEW REPORT

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

**Manuscript NO:** 58158

**Title:** Autophagy in Liver Diseases

**Reviewer's code:** 00076690

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Greece

**Author's Country/Territory:** Greece

**Manuscript submission date:** 2020-07-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-07-14 14:26

**Reviewer performed review:** 2020-07-17 13:41

**Review time:** 2 Days and 23 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

#### **SPECIFIC COMMENTS TO AUTHORS**

This is a comprehensive survey of the multiple roles of autophagy in liver pathology. The article would benefit from including a few display items (figures, tables, diagrams, etc), that summarize or graphically depict the information presented. Also, please correct language errors, throughout the manuscript.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 58158

**Title:** Autophagy in Liver Diseases

**Reviewer's code:** 02444760

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Research Fellow, Research Scientist

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Greece

**Manuscript submission date:** 2020-07-14

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2020-09-04 13:23

**Reviewer performed review:** 2020-09-24 14:35

**Review time:** 20 Days and 1 Hour

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## **SPECIFIC COMMENTS TO AUTHORS**

This review summarizes the functions of autophagy, together with its specialized forms (lipophagy, mitophagy), in liver diseases with fundamental details. In result, autophagy is proposed to involve in multiple liver diseases, such as alcoholic and nonalcoholic fatty liver disease, liver fibrosis/cirrhosis, viral hepatitis, biliary diseases, autoimmune hepatitis, inherited metabolic diseases, acetaminophene hepatotoxicity. Its effects on hepatocytes, Kupffer cells, sinusoidal endothelial cells, and hepatic stellate cells are reviewed to provide deep insight into the underlying mechanisms. Moreover, both clinical data and experimental evidences are integrated so as to highlight the potential therapeutic intervention of liver disease on a basis of autophagy regulation. These achievements may add a new level to our understanding of autophagy in various kinds of liver disease, and be of value to hepatologists.

1. NASH should be nonalcoholic steatohepatitis, but not steatohepatitis (Page 13).
2. Given the plentiful information in the review, schematic illustration will be helpful for the thorough and precise understanding.