

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 80338

**Title:** Liver infiltration of multiple immune cells during the process of acute liver injury and repair

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05115930

**Position:** Peer Reviewer

**Academic degree:** BSc, PhD

**Professional title:** Senior Scientist

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

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

**Manuscript submission date:** 2022-09-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-07 10:45

**Reviewer performed review:** 2022-10-19 12:26

**Review time:** 12 Days and 1 Hour

Scientific quality	<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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Peer-reviewer  
statements**

Peer-Review: [ ☒ ] Anonymous [ ☐ ] Onymous  
Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No

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

Various immune populations, including neutrophils, NK cells, NKT cells, macrophages and T cells, are directed and recruited to damaged sites and inflammatory lesions, following acute injury. However, there has been no systematic study on the quantitative changes of these different immune cells from initial injury to subsequent recovery. This study was designed to investigate infiltration changes of various immune cells in acute liver injury models. And the relationship between the changes in LECT2 and the infiltration of several immune cells is also studied. The manuscript is very well written. The research was well performed, and the results are interesting. Minor comments: 1. The manuscript requires a minor editing. Some minor language polishing should be revised. 2. The quality of the figures should be improved. 3. Are there any limitation for this research? Please make a short discussion for it.

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**Reviewer's code:** 05824962

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Professor

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

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

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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

In this study, the authors described the infiltration changes of various immune cells in acute liver injury models during the time course. The authors found that the recovery time of immune cells in the repair process was far behind the recovery of serum ALT and AST, and LECT2 was upregulated in acute liver injury models and that the changes in LECT2 were related to changes in several immune cells. The study is well designed and the results are very interesting. The model of acute liver injury is proper. The data in the results are well displayed, and discussed. The reviewer has no specific comments to the authors. Only some minor language polishing should be corrected. Thank you.