

## PEER-REVIEW REPORT

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

**Manuscript NO:** 76109

**Title:** Transcriptome Changes in Stages of Non-Alcoholic Fatty Liver Disease

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

**Peer-review model:** Single blind

**Reviewer's code:** 06131948

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Doctor, Teacher

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

**Author's Country/Territory:** United States

**Manuscript submission date:** 2022-03-02

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-03-03 14:02

**Reviewer performed review:** 2022-03-11 09:04

**Review time:** 7 Days and 19 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

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

Research on the mechanisms of non-alcoholic fatty liver disease is of clinical interest, given its high prevalence and significance. It is recommended to add information in the article about the GEO data sets used for the analysis, including data on patients and methods of data acquisition (can be in the form of a table). It is recommended to add a conclusion or conclusions on the results of the study. It is recommended to expand the limitation section of the study, the fact that the study did not involve experimental or clinical evidence. It is recommended to decipher all abbreviations at the first mention. It is recommended to add a description to the figures, which will facilitate their interpretation.

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**Reviewer's code:** 05911905

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

**Author's Country/Territory:** United States

**Manuscript submission date:** 2022-03-02

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**Reviewer accepted review:** 2022-03-02 02:09

**Reviewer performed review:** 2022-03-14 00:58

**Review time:** 11 Days and 22 Hours

<b>Scientific quality</b>	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="radio"/> Grade A: Priority publishing <input type="radio"/> Grade B: Minor language polishing <input type="radio"/> Grade C: A great deal of language polishing <input type="radio"/> Grade D: Rejection
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<b>Re-review</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="radio"/> Anonymous <input type="radio"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

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

Dr. Spengler and his colleagues collected NAFLD and NASH gene expression data from GEO database and utilized STRGEO for meta-analysis. They also performed IPA to further uncover top disease function and networks and used clue.io to identify potential therapeutic targets of NAFLD and NASH. Their work not only illustrated the gene expression profiles of both NAFLD and NASH, also demonstrated the common and unique disease pathogenesis pathway between NAFLD and NASH. More important, their work pointed out that AKT or PI3K pathway could be potential therapeutic targets for NALFD and NASH. Overall, it is a high-quality work and the manuscript was well-written. The review believe it is very interesting for our flied. Highly recommend for publication