

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60211

Title: Gut microbiota mediated molecular events and therapy in liver diseases

Reviewer's code: 03064668

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2020-10-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-10-20 23:34

Reviewer performed review: 2020-10-30 02:52

Review time: 9 Days and 3 Hours

Scientific quality	<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 Grade E: Do not publish
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 checked="" type="checkbox"/> Accept (General priority) <input 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: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The authors thought that understanding the mechanism by which gut microbiota affects the development of liver diseases has led to the establishment of novel preventive and therapeutic strategies. However, the two important latest reports were omitted: 1."Fatty liver Disease caused by High-Alcohol-Producing *Kebsiella pneumonia*", cell metabolism. 2."Bacteriophage targeting of gut bacterium attenuates alcoholic liver disease" , nature. Alcohol-producing for gut microbiota and bacteriophage therapy may be the new and perspective factor for liver disease. So the authors should add the reference and discuss these research results.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Author's Country/Territory: United States

Manuscript submission date: 2020-10-20

Reviewer chosen by: Pan Huang

Reviewer accepted review: 2020-11-25 09:38

Reviewer performed review: 2020-11-26 08:59

Review time: 23 Hours

Scientific quality	<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
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	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

Nonalcoholic fatty liver disease (NAFLD) and alcoholic FLD (AFLD) is typically initiated



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by fat deposition in the liver, with subsequent liver injury: steatohepatitis, inflammation, fibrosis, cirrhosis and hepatocellular carcinoma. This review demonstrated gut microbiota-mediated intrahepatic immunity via metabolites and molecular signaling pathways has been studied in both preclinical and clinical investigations. It is important for knowing the mechanisms and therapy of NAFLD and FLD. So, the content of this review is valuable for publishment.