



PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 65491

Title: Gut microbiome in non-alcoholic fatty liver disease associated hepatocellular carcinoma: Current knowledge and potential for therapeutics

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02440884

Position: Editorial Board

Academic degree: MD

Professional title: Chief Doctor, Full Professor, Professor, Senior Lecturer

Reviewer's Country/Territory: Germany

Author's Country/Territory: United States

Manuscript submission date: 2021-03-08

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-09 18:52

Reviewer performed review: 2021-03-10 19:59

Review time: 1 Day 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 Grade E: Do not publish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 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
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



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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

In the review the important role of the gut microbiome in NAFLD associated HCC is addressed. The topic is of high interest and in the scope of the journal. Comments 1. The first paragraph in the section "Bile Acids and Interaction with gut microbiome, role in liver disease" is preliminary and should be essentially improved. 2. The senescence associated secretory phenotype (SASP) of hepatic stellate cells should be more intensively described. 3. The intestinal microbiota has some effects on diurnal rhythms in host metabolism. This important point should be further addressed in the review and the work of Kuang (Science 2019; 365:1428) should be cited.



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Peer-review model: Single blind

Reviewer's code: 05506165

Position: Peer Reviewer

Academic degree: N/A

Professional title: Associate Chief Physician, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-03-08

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-03-11 04:19

Reviewer performed review: 2021-03-12 07:05

Review time: 1 Day and 2 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
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SPECIFIC COMMENTS TO AUTHORS

1.Line 285-294: What the relationship between FXR and EGFR dependent pathways and microbiome in liver diseases? 2. Line 311-321: Since the effects of the microbiome on SCFA is still being investigated, is this part can explain the role of microbiome in NAFLD ? 3. Line 341-345: What is the purpose to discuss gut microbiome in obese individuals? 4. Line 390-397: What is the specific impact of the diet such as high fat diet on liver diseases through microbiome?



RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Peer Reviewer

Academic degree: N/A

Professional title: Associate Chief Physician, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-03-08

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-04-15 02:06

Reviewer performed review: 2021-04-15 02:18

Review time: 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
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Peer-reviewer	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

This review elucidates the association between Gut Microbiome in Non-Alcoholic Fatty Liver Disease and Hepatocellular Carcinoma in detail, therefore, I support this paper for publication.



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Author's Country/Territory: United States

Manuscript submission date: 2021-03-08

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-04-15 07:21

Reviewer performed review: 2021-04-15 07:35

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

SPECIFIC COMMENTS TO AUTHORS

In the revised version of the manuscript concerning the important role of the gut microbiome in NAFLD associated HCC all points of criticism are addressed. The topic is of high interest and in the scope of the journal. Comments 1. At page 11: the sentence '(30) (31) intestine (32)' makes no sense.