

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 64819

Title: Gut microbiota and immune system in liver cancer: Promising therapeutic implication from development to treatment

Reviewer's code: 00069630

Position: Editorial Board

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2021-02-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-24 02:16

Reviewer performed review: 2021-03-10 02:54

Review time: 14 Days

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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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

Liver receives gastrointestinal blood flow, which has complex immune function. At present, the research has confirmed that chronic inflammation caused by different causes is the pathophysiological basis of hepatitis, cirrhosis and liver cancer. Such a chronic inflammation is closely related to the liver immune system and gut microbiota. So far, there are many researches on the field, but due to the differences of research types and interests, there is no systematic comparison and synthesis. The manuscript reviews the progress of the research on the relationship of gut microbiota, liver immunity and liver cancer in the past 10 years. From HCC development and treatment, the related basic and clinical researchs are systematically summarized. Through the comparison and summary of different studies, the author gives the limitations of the existing research, and also puts forward the direction of further research. This review is clear, comprehensive, reasonable in analysis and accurate in literature reference. Undoubtedly, with the further research of gut microbiota, people will get a new understanding of some diseases. The diagnosis and treatment of liver inflammation, cirrhosis and liver cancer will benefit from it. This review is a reference for clinicians and basic researchers. I agree with the publication of the review.