

## PEER-REVIEW REPORT

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

**Manuscript NO:** 82857

**Title:** Gastrointestinal microbiome and cholelithiasis: Current status and perspectives

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

**Peer-review model:** Single blind

**Reviewer's code:** 03479389

**Position:** Associate Editor

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Director

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

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

**Manuscript submission date:** 2022-12-28

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-29 06:34

**Reviewer performed review:** 2022-12-29 07:40

**Review time:** 1 Hour

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<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
<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 statements</b>	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

This is a well-written review of gallstones and the gut microbioma. Please list the references you used in a table to make it easier for the reader.

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**Title:** Gastrointestinal microbiome and cholelithiasis: Current status and perspectives

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**Peer-review model:** Single blind

**Reviewer's code:** 02936706

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** South Korea

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

**Manuscript submission date:** 2022-12-28

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-30 00:05

**Reviewer performed review:** 2023-01-03 00:47

**Review time:** 4 Days

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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	[ <b>Y</b> ] Grade A: Excellent    [   ] Grade B: Good    [   ] Grade C: Fair [   ] Grade D: No scientific significance
<b>Language quality</b>	[ <b>Y</b> ] Grade A: Priority publishing    [   ] Grade B: Minor language polishing    [   ] Grade C: A great deal of language polishing    [   ] Grade D: Rejection
<b>Conclusion</b>	[   ] Accept (High priority)    [   ] Accept (General priority) [ <b>Y</b> ] Minor revision    [   ] Major revision    [   ] Rejection
<b>Re-review</b>	[ <b>Y</b> ] Yes    [   ] No
<b>Peer-reviewer statements</b>	Peer-Review: [ <b>Y</b> ] Anonymous    [   ] Onymous
	Conflicts-of-Interest: [   ] Yes    [ <b>Y</b> ] No

#### SPECIFIC COMMENTS TO AUTHORS

This is well written article and has its own value to be published. There are two minor comments. First, the prevalence of cholelithiasis in the abstract should be based on world wide epidemiology. Second, the microbial composition, taxonomic profile, and metabolites are mixed in same paragraphs. It it is corrected, it might be better.

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

**Peer-review model:** Single blind

**Reviewer's code:** 03534021

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

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**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-28 23:45

**Reviewer performed review:** 2023-01-05 11:27

**Review time:** 7 Days and 11 Hours

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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<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
<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

This is a review manuscript on gastrointestinal microbiome and cholelithiasis, summarizing the current literature, pooling the available cholilithiasis-related studies about the gastrointestinal microbiome, discussing the underlying mechanisms by which the gastrointestinal microbiome modulates cholelithiasis, and suggesting potential microbiome-targeting therapeutics for cholelithiasis prevention. I have read the article with great attention and interest. However, it seems appropriate to make some personal comments. 1) Figure 1 which appears in INTRODUCTION are difficult to understand, and it might just as well be omitted. 2) It might be inappropriate for Figure 2 to appear in the paragraph titled "The GI microbiome induces gallstone formation by regulating bile acid (BA) metabolism". 3) How about rewriting the last sentence of the paragraph titled "Helicobacter species induce gallstone formation by precipitating calcium" as flows after changing the line? Original: Nevertheless, the mechanistic links between pathobionts and cholelilithiasis formation need further exploration. ⇒Nevertheless, the mechanisms for the GI microbiome contributing to cholelithogenesis as described above (Figure 2) lack evidence to support causality, and the mechanistic



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links between pathobionts and cholelithiasis formation need further exploration. 4)  
Typos should be corrected. · associationstudies⇒association studies (in “The biliary  
microbiome”) · defectin⇒defect in (in “The GI microbiome induces gallstone formation  
by regulating bile acid (BA) metabolism”) 5) In REFERENCES, some journal names are  
missing.