



## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 78309

**Title:** The role of short chain fatty acids in gut health and possible therapeutic approaches in inflammatory bowel diseases

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

**Peer-review model:** Single blind

**Reviewer's code:** 04010086

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2022-06-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-06-21 02:23

**Reviewer performed review:** 2022-06-27 12:57

**Review time:** 6 Days and 10 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 Grade E: Do not publish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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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

作者在阅读大量文献基础上，该综述主要为了讨论短链脂肪酸在炎症性肠病治疗中可能的作用，选题较好。但文中使用了大量的篇幅讨论炎症性肠病、肠道菌群和肠粘膜屏障的基础知识，有目的不明确之嫌。建议删除很多关于炎症性肠病、肠道菌群和肠粘膜屏障基础知识的段落。



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**Title:** The role of short chain fatty acids in gut health and possible therapeutic approaches in inflammatory bowel diseases

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**Peer-review model:** Single blind

**Reviewer's code:** 03795731

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2022-06-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-06-25 06:02

**Reviewer performed review:** 2022-06-30 06:33

**Review time:** 5 Days

<b>Scientific quality</b>	<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
<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



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

The authors systematically and in good English presented the latest knowledge on short-chain fatty acids and inflammatory bowel diseases, and on the possibilities of their implementation in the treatment of inflammatory bowel diseases. The article can be accepted for publication.



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**Peer-review model:** Single blind

**Reviewer's code:** 04091933

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Senior Researcher

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

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

**Manuscript submission date:** 2022-06-19

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-06-19 16:16

**Reviewer performed review:** 2022-07-01 20:16

**Review time:** 12 Days and 4 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input checked="" type="checkbox"/> Grade E: Do not publish
<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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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

Despite the high relevance of the topic, the review is written at a low scientific level. Sketchy and fragmentary information about IBD, microbiota, SCFA, and their effects are presented. The microbiota origin of SCFA and its production in health and dysbiosis are practically not discussed. Of the SCFAs, practically only butyrate is discussed, while the barrier-supporting and anti-inflammatory role of propionate in IBD, which has been actively studied recently, is not discussed at all by the authors. The important section MODULATION OF SCFAs PRODUCTION AND FUTURE PROSPECTS is superficially written and is not state-of-the-art. Scientific literary sources for the last 5 years make up no more than 25% of all references, which is not enough. There are only 5 references to 2021 articles and no references to 2022 papers. The articles reviewed by the authors do not fully reflect the topic of the manuscript. Unfortunately, the manuscript cannot be recommended for publication.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Reviewer's code:** 04091933

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Senior Researcher

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

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

**Manuscript submission date:** 2022-06-19

**Reviewer chosen by:** Yu-Lu Chen

**Reviewer accepted review:** 2022-08-05 13:56

**Reviewer performed review:** 2022-08-05 14:54

**Review time:** 1 Hour

<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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<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**

The authors have significantly revised the manuscript and updated the references for the review (including the latest ones for 2022). The main comments of the reviewer were taken into account with appropriate changes in the text. The manuscript can be published in the current version in the World Journal of Clinical Cases.