



## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Diabetes*

**Manuscript NO:** 76122

**Title:** The potential role of *Limosilactobacillus fermentum* as a probiotic with anti-diabetic properties: A review

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

**Peer-review model:** Single blind

**Reviewer's code:** 05309430

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2022-03-02

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-03-03 01:48

**Reviewer performed review:** 2022-03-14 08:32

**Review time:** 11 Days and 6 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 Grade E: Do not publish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 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



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
**https://**www.wjgnet.com

<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**

This paper reviews the effects of probiotics on intestinal microbiota, intestinal wall permeability, inflammatory mediators, antioxidant system, and ultimately glucose metabolism, thus playing a role in the adjuvant treatment of diabetes mellitus (type 2). The characteristics of several probiotics on the above effects are further listed in this paper. The article is helpful for readers to understand relevant knowledge. Although the article cites some recent literature, the page numbers are not complete, please check them carefully for readers to verify.



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**Reviewer's code:** 05200538

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2022-03-02

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-03-15 09:14

**Reviewer performed review:** 2022-03-20 18:18

**Review time:** 5 Days and 9 Hours

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

This is an interesting and well-written review on the potential role of *Limosilactobacillus fermentum* as a probiotic with anti-diabetic properties. The authors largely documented available data on this subject and the implication of gut microbiota in diabetes. Since all studies, except one, are experimental studies on animals, the authors should more clearly acknowledge that data on various biomarkers which are improved following administration of *L. fermentum* come from animal studies and therefore available data suggest a POTENTIAL role in diabetes management. In line with this observation, article title should also reflect that available data suggest a potential role, not yet definitely confirmed by human studies.