

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 73565

Title: Bifidobacterium infantis regulates the programmed cell death 1 pathway and immune response in mice with inflammatory bowel disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05045708

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Doctor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2021-12-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-13 06:43

Reviewer performed review: 2021-12-13 07:17

Review time: 1 Hour

| | |
|---------------------------|---|
| Scientific quality | <input checked="" 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 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 Grade E: Do not publish |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 |
| Conclusion | <input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Re-review | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

| | |
|-------------------------------------|---|
| Peer-reviewer statements | Peer-Review: [<input type="checkbox"/>] Anonymous [<input checked="" type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No |
|-------------------------------------|---|

SPECIFIC COMMENTS TO AUTHORS

Thank you for valuable researching, I only suppose to add more references about Bifidobacterium's beneficial effects on immune system in discussion part [39]Bozkurt, H.S.; Quigley, E.M.M. Bifidobacteria and Mucosal-Associated Invariant T (MAIT) Cells: A New Approach to Colorectal Cancer Prevention? *Gastrointest. Disord.* 2019, 1, 266-272. [40]Bozkurt HS, Kara B. A new treatment for ulcerative colitis: Intracolonic Bifidobacterium and xyloglucan application. *European Journal of Inflammation*. January 2020 [41]Bozkurt HS, Quigley EM. The probiotic Bifidobacterium in the management of Coronavirus: A theoretical basis. *Int J Immunopathol Pharmacol.* 2020 Jan-Dec. [42]Bozkurt HS, Bilen Ö. Oral booster probiotic bifidobacteria in SARS-COV-2 patients. *International Journal of Immunopathology and Pharmacology.* January 2021 Again, congratulation for this working

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03700188

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Attending Doctor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2021-12-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-20 17:10

Reviewer performed review: 2021-12-21 15:06

Review time: 21 Hours

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|---------------------------|---|
| 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 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 |
| 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

| | |
|-------------------------------------|---|
| Peer-reviewer statements | Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No |
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SPECIFIC COMMENTS TO AUTHORS

The title reflects well the main subject of the manuscript. The abstract is well written and summarizes the work described in the manuscript. The manuscript adequately describes the background, present status and significance of the study. The manuscript describes methods in adequate detail. The research objectives were achieved by the experiments used in this study. And I think that this study contributed to increase our knowledge about IBD and the role of the microenvironment. The manuscript interprets the findings adequately and appropriately. The findings are important and help to understand the interaction between the immune function of the intestinal mucosa and the intestinal flora of an affected animal. The figures, diagrams and tables are sufficient and gave good quality. The manuscript is coherently organized and presented. But the authors forgot the Key words.

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Peer-review model: Single blind

Reviewer's code: 03478404

Position: Editor-in-Chief

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: China

Manuscript submission date: 2021-12-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-21 14:17

Reviewer performed review: 2021-12-22 16:15

Review time: 1 Day and 1 Hour

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|--------------------|---|
| 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 |

SPECIFIC COMMENTS TO AUTHORS

Generally, this manuscript is based on a solid research and results show potential impact on therapy of IBD patients. Paragraphs are well written and the five Figures are of good quality and illustrative. Minor comments: 1. In the whole manuscript, please replace flora with microbiota. 2. Abstract: Methods: please insert that you used forty mice. 3. Key words are missing. Please insert relevant words. 4. Core Tip: This does not exist. It is mandatory. Please write it and insert it. 5. Introduction: Clearly states the importance of this research; just please define (by the end of Introduction) the aim of your study, not what you performed during your research. 6. Materials and Methods should be one paragraph, with multiple subparagraphs. Also, in “Materials”: Please mention in a sentence that you used those materials, instead of a list. 7. Title of Table 1 is missing. 8. Figure 5: Bifibobacterium infantis appears abbreviated as B9. Please mention it. 9. Paragraph Discussion should be expanded, with references from 2021. Please insert limitations of your study. 10. Please provide definite perspectives for future research. 11. References – there is none from 2021. Please update. 12. Please provide a list of abbreviations. 13. There are no « Conflict-of-Interest Disclosure Form » and « Copyright License Agreement ». Please add. 14. The overall format of the WJG is not respected, including references. Please revise. 15. Please also add authors’ ORCID numbers.