

## PEER-REVIEW REPORT

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

**Manuscript NO:** 80159

**Title:** Saccharomyces cerevisiae prevents postoperative recurrence of Crohn's disease modeled by ileocecal resection in HLA-B27 transgenic rats

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

**Peer-review model:** Single blind

**Reviewer's code:** 05432792

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Surgeon

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

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

**Manuscript submission date:** 2022-09-25

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-09-25 11:14

**Reviewer performed review:** 2022-10-11 13:06

**Review time:** 16 Days and 1 Hour

|                    |   |
|--------------------|---|
| Scientific quality | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good<br><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 Grade E: Do not publish            |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<br><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)<br><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   |



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**Peer-reviewer  
statements**

Peer-Review: [ ☒ ] Anonymous [ ☐ ] Onymous

Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No

## **SPECIFIC COMMENTS TO AUTHORS**

Dear Author, thank you for provide this research.

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

**Peer-review model:** Single blind

**Reviewer's code:** 05244644

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Chief Doctor, Deputy Director, Professor

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

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

**Manuscript submission date:** 2022-09-25

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-20 01:12

**Reviewer performed review:** 2022-10-20 07:04

**Review time:** 5 Hours

|                    |   |
|--------------------|---|
| Scientific quality | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good<br><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<br><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)<br><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   |



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

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

Postoperative recurrence after ileocecal resection affects most Crohn's disease patients within 3-5 years after surgery. Adherent and invasive *Escherichia coli* (AIEC) typified by the LF82 strain are pathobionts frequently detected in POR of Crohn's disease and have a potential role in the early stages of the disease pathogenesis. *Saccharomyces cerevisiae* CNCM I-3856 is a probiotic yeast reported to inhibit AIEC adhesion to intestinal epithelial cells and to favor their elimination from the gut. The authors found that Administration of CNCM I-3856 significantly reduced the levels of luminal and adherent LF82, increased the production of IL-10 and decreased the production of IL-23 and IL-17 in TgB27 rats. This study confirmed the capacity of *S. cerevisiae* CNCM I-3856 to prevent AIEC-induced POR.