

## PEER-REVIEW REPORT

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

**Manuscript NO:** 79311

**Title:** Interleukin-34 Deficiency Aggravates Development of Colitis and Colitis-Associated Cancer in Mice

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

**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:** China

**Manuscript submission date:** 2022-08-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-09-12 05:29

**Reviewer performed review:** 2022-09-25 13:52

**Review time:** 13 Days and 8 Hours

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 Grade E: Do not publish
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 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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<b>Peer-reviewer statements</b>	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 topic of study is very relevant and concerns a little-studied cytokine IL-34 and its role in experimental (ulcerative) colitis and colitis-associated cancer (CAC). The authors showed that IL-34 does not drive the inflammatory response, but protects from inflammatory injury and reduces the risk of CAC. The authors competently conducted the study, illustrated it well, and referred to relevant sources (without self-citation). However, it is highly recommended to include in the discussion new evidence that IL-34 is critical for the suppressive function of CD4<sup>+</sup> Tregs, and its deficiency leads to increased susceptibility to autoimmunity (Freuchet A, ... Guillonneau C, 2022). This will make the authors' conclusions even more convincing. In addition, a list of references should be arranged in accordance with the requirements of the WJG. The manuscript can be recommended for publication after a minor revision.

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

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**Reviewer's code:** 03544596

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Academic Editor, Associate Professor

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

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

**Manuscript submission date:** 2022-08-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-03 07:57

**Reviewer performed review:** 2022-10-03 08:20

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

Dear Editor, Thanks to the authors for this experimental study. In the study, the authors investigated the function of IL-34 in acute colitis, in a wound healing model and in colitis-associated cancer in IL-34-deficient mice. The manuscript adequately describes the background, present status and significance of the study. The manuscript interprets the findings adequately and appropriately, highlighting the key points concisely, clearly. Also, the latest and important references are cited in the manuscript. Introduction part of the manuscript is too long, it should be shortened. The authors stated that "All animal experiments were approved by the Institutional Ethics Committee of Nantong University", but there is no date/number ? please add the date of Ethical approval?