

## PEER-REVIEW REPORT

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

**Manuscript NO:** 87169

**Title:** Research progress on the relationship between Paneth cells-susceptibility genes -intestinal microecology and inflammatory bowel disease

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

**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:** China

**Manuscript submission date:** 2023-07-27

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-08-28 09:37

**Reviewer performed review:** 2023-08-28 10:06

**Review time:** 1 Hour

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<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 checked="" type="checkbox"/> Accept (General priority) <input 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
<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

#### SPECIFIC COMMENTS TO AUTHORS

A very nice review article that describes the role of genes, Paneth cells and intestinal bacteria in the development of inflammatory bowel disease. The work can be accepted for publication.

Reply: we thank you

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**Reviewer's code:** 05040484

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Doctor, Professor, Research Scientist

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

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

**Manuscript submission date:** 2023-07-27

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-08-29 19:43

**Reviewer performed review:** 2023-09-03 08:09

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

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<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

## SPECIFIC COMMENTS TO AUTHORS

The idea of the review is interesting, but a critical number of errors are already noticed in the introduction: 1) "In 1888, the Austrian physician Joseph Paneth described Paneth cells graphically as a group of specialized cylindrical cells in the crypts of the small intestine epithelium, whose cytoplasm is filled with granular matter. The cells have been named Paneth cells in honor of Dr .Paneth." should be edited

**Point to point Reply: we have edited.**

2) "Their function is similar to that of neutrophils." No. The main function of neutrophils is phagocytosis, but the main function of Paneth cells is the secretion of antibacterial proteins.

**Point to point Reply: we have revised.** Their function is the secretion of antibacterial proteins.

3) "Paneth cells secrete antibacterial molecules such as defensins into the villi of the intestinal lumen to help maintain the gastrointestinal barrier" - They secrete not into the villi, but between them.

**Point to point Reply: we have revised.** Paneth cells secrete antibacterial molecules such

as defensins between the villi of the bowel to help maintain the gastrointestinal barrier.

4) "Later, Paneth cells were found in the gastrointestinal tract, including the stomach and colon" - Is the small intestine not part of the gastrointestinal tract?

**Point to point Reply:** we have revised. including the stomach, small intestine and colon

5) "However, Paneth cells in the gastrointestinal tract are mainly found in response to mucous membrane inflammation, which is called metaplasia in abnormal colorectal regions". Is the presence of Paneth cells in the small intestine also a response to inflammation?

**Point to point Reply:** yes

6) "However, Paneth cells in the gastrointestinal tract are mainly found in response to mucous membrane inflammation, which is called metaplasia in abnormal colorectal regions. Paneth cell metaplasia (PCM) is widespread in inflammatory enteritis." The authors first speak of the large intestine, then about enteritis, which is inflammation of the small intestine. I got the impression that the authors themselves do not understand what they are writing about. I recommend that this manuscript be edited by a specialist in intestinal pathology.

Reply: we have revised, thank you.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Reviewer's code:** 05040484

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Doctor, Professor, Research Scientist

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

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

**Manuscript submission date:** 2023-07-27

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2023-09-27 18:18

**Reviewer performed review:** 2023-09-27 18:30

**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



**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>

statements

Conflicts-of-Interest: [ ] Yes [Y] No

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

No corrections have been made. The mistakes are the same.

Reply: we have revised, thank you.