



PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 107639

Title: Roles of intestinal stem cells in inflammatory bowel disease pathogenesis

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02916557

Position: Editorial Board

Academic degree and professional title: Associate Professor, PhD

Reviewer's Country/Territory: Cameroon

Author's Country/Territory: China

Manuscript submission date: 2025-03-27

Reviewer chosen by: Jia-Lin Zhang

Reviewer accepted review: 2025-04-01 11:10

Reviewer performed review: 2025-04-08 03:08

Review time: 6 Days and 15 Hours

Content to be reviewed	Does the manuscript's content fall within the scope of the journal? Yes Is there any Key Word that is not included in the manuscript title? Yes Do authors' affiliations correspond to the content of the manuscript? Yes Does the Abstract contain the contents of each part of the manuscript (IMRaD)? Yes Are the Key Words complete? Yes Is the content of the Introduction adequate? Yes
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	<p>Is the content of the Materials and Methods complete? Yes</p> <p>Is the description of the experiments clear and complete? Yes</p> <p>Are the experimental data presented in the manuscript's biostatistics content reliable? Yes</p> <p>Are the experimental data of the Results true and reliable? Yes</p> <p>Are the quality and resolution of the images up to standard? Yes</p> <p>Does the research scope comply with ethics? Yes</p> <p>Are additional experiments needed for the study? Yes</p> <p>Will the manuscript's content be of interest to readers? Yes</p> <p>Is the manuscript's text correct, concise, and clear? Yes</p> <p>Do authors only cite their own earlier publications? Yes</p> <p>Are all references related to the topic of the manuscript? Yes</p> <p>Do authors omit important references? Yes</p> <p>Are all references necessary and reasonable? Yes</p> <p>Is the Conclusion reasonable? Yes</p> <p>Is the content of the Discussion reasonable? Yes</p> <p>Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? Yes</p> <p>Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? Yes</p> <p>Do the selection and design of the figures and tables follow the principles of necessity and clarity? Yes</p>
<p>Scientific quality</p>	<p>Grade B (Very good)</p>



Novelty of this manuscript	Grade B (Very Good)
Creativity or innovation of this manuscript	Grade B (Very Good)
Scientific significance of the conclusion in this manuscript	Grade B (Very Good)
Language quality	Grade B (Very good)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	Yes
Does this manuscript report an unconventional innovation?	Yes
Conclusion	Accept
Re-review	Yes
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No

SPECIFIC COMMENTS TO AUTHORS

Meng-jie Zhang et al. have worked on the manuscript intitled: The role of intestinal stem cellsin inflammatory bowel disease. The manuscript is interesting and can be accept for publication in this journal



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Manuscript NO: 107639

Title: Roles of intestinal stem cells in inflammatory bowel disease pathogenesis

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 08455116

Position: Peer Reviewer

Academic degree and professional title: PhD

Reviewer’s Country/Territory: China

Author’s Country/Territory: China

Manuscript submission date: 2025-03-27

Reviewer chosen by: Yu Bai

Reviewer accepted review: 2025-04-10 01:44

Reviewer performed review: 2025-04-18 08:27

Review time: 8 Days and 6 Hours

Content to be reviewed	<p>Does the manuscript’s content fall within the scope of the journal? Yes</p> <p>Is there any Key Word that is not included in the manuscript title? Yes</p> <p>Do authors’ affiliations correspond to the content of the manuscript? Yes</p> <p>Does the Abstract contain the contents of each part of the manuscript (IMRaD)? Yes</p> <p>Are the Key Words complete? Yes</p> <p>Is the content of the Introduction adequate? Yes</p>
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Is the content of the Materials and Methods complete?

Yes

Is the description of the experiments clear and complete? **Not Applicable**

Are the experimental data presented in the manuscript's biostatistics content reliable? **Not Applicable**

Are the experimental data of the Results true and reliable? **Not Applicable**

Are the quality and resolution of the images up to standard? **Not Applicable**

Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Not Applicable**

Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **Not Applicable**

Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Not Applicable**

Is the content of the Discussion reasonable? **Not Applicable**

Is the Conclusion reasonable? **Yes**

Are all references necessary and reasonable? **Yes**

Do authors omit important references? **No**

Are all references related to the topic of the manuscript? **Yes**

Do authors only cite their own earlier publications? **No**

Is the manuscript's text correct, concise, and clear? **Yes**

Will the manuscript's content be of interest to readers?

Yes



	Are additional experiments needed for the study? No Does the research scope comply with ethics? Yes
Scientific quality	Grade B (Very good)
Novelty of this manuscript	Grade C (Good)
Creativity or innovation of this manuscript	Grade C (Good)
Scientific significance of the conclusion in this manuscript	Grade B (Very Good)
Language quality	Grade B (Very good)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Minor revision
Re-review	No
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No

SPECIFIC COMMENTS TO AUTHORS

This paper focuses on the role of intestinal stem cells (ISCs) in inflammatory bowel disease (IBD). The pathogenesis of IBD has been thoroughly studied throughout the past few decades. Recent studies have revealed the unexpected importance of intestinal stem cells (ISCs) in the pathophysiology of IBD. Intestinal epithelial cells rapid recovery and continuous self-renewal depend on the crypts' ISCs. Proliferation and differentiation of ISCs is an important cytological basis for repairing damaged intestinal mucosa. Stem cell therapy is an emerging treatment for IBD that allows mucosal healing by rebuilding the



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mucosal barrier. In this review, they present the current research progress on the role of ISCs in IBD and discuss stem cell-based therapies that have been specifically designed for its treatment. It is rich in content and has important scientific research and clinical guiding value. However, there is still room for improvement. The specific shortcomings and modification suggestions are as follows: 1. Insufficient in-depth explanation of some mechanisms: Regarding the specific mechanisms by which immune cells, nutrition, and the microbiome regulate ISCs, only some cytokines and phenomena are listed, and the interaction network and key nodes are not explored in depth. It is recommended to deepen the research on mechanisms, supplement the molecular mechanisms by which immunity, nutrition, and the microbiome regulate ISCs, construct a complete regulatory network, and enhance readers' understanding. 2. Inadequate comparison in the treatment section: When introducing the treatment of IBD with hematopoietic stem cells, mesenchymal stem cells, and organoids, the comparison of the advantages and disadvantages of the three treatment methods is not detailed enough, making it difficult to highlight their respective characteristics. It is suggested to add tables or figures to compare the clinical data, application scopes, adverse reactions, etc. of hematopoietic stem cell, mesenchymal stem cell, and organoid therapies, facilitating readers' comparison. 3. Lack of innovation in research prospects. Attention can be paid to interdisciplinary fields, such as the combination of gene editing and stem cell therapy, and the use of artificial intelligence to assist in disease diagnosis and treatment monitoring, etc., to provide new ideas for research.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Stem Cells*

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Title: Roles of intestinal stem cells in inflammatory bowel disease pathogenesis

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Peer-review model: Single blind

Reviewer's code: 08455116

Position: Peer Reviewer

Academic degree and professional title: PhD

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2025-03-27

Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2025-05-28 02:08

Reviewer performed review: 2025-05-28 02:13

Review time: 1 Hour

Content to be reviewed	Does the manuscript's content fall within the scope of the journal? Yes Is there any Key Word that is not included in the manuscript title? Yes Do authors' affiliations correspond to the content of the manuscript? Yes Does the Abstract contain the contents of each part of the manuscript (IMRaD)? Yes Are the Key Words complete? Yes Is the content of the Introduction adequate? Yes
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<p>Scientific quality</p>	<p>Grade A (Excellent)</p>



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Novelty of this manuscript	Grade B (Very Good)
Creativity or innovation of this manuscript	Grade B (Very Good)
Scientific significance of the conclusion in this manuscript	Grade A (Excellent)
Language quality	Grade A (Excellent)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	Yes
Conclusion	Accept
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No

SPECIFIC COMMENTS TO AUTHORS

The author has solved the problem I raised, and I think it can be published.