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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 85990

Title: Application of single-cell omics in inflammatory bowel disease

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01518946
Position: Editorial Board
Academic degree: MD, PhD

Professional title: Professor, Research Fellow, Senior Consultant Dermatologist

Reviewer's Country/Territory: Japan

Author's Country/Territory: United States

Manuscript submission date: 2023-05-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-25 23:14

Reviewer performed review: 2023-05-29 23:53

Review time: 4 Days

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [Y] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This manuscript describes a review of Single-cell Omics in Inflammatory Bowel Disease. Although the title is very attractive, the content is too preliminary as a review of the World Journal of Gastroenterology. Furthermore, Fig. 1 does not show the impact of this research field. The authors should rewrite this manuscript for a variety of readers of the World Journal of Gastroenterology

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Reviewer's code: 03733319
Position: Peer Reviewer
Academic degree: MD, PhD

Professional title: Chief Physician, Deputy Director, Lecturer

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2023-05-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-29 06:09

Reviewer performed review: 2023-06-06 05:02

Review time: 7 Days and 22 Hours

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
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Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In the study of inflammatory bowel disease (IBD), scRNA-seq is being used to identify novel cellular immune players in the pathogenesis of both ulcerative colitis and Crohn's disease. By analyzing individual cells from inflamed tissue, researchers can identify specific cell types that are involved in the immune response and determine how they contribute to disease progression. This information can then be used to develop more targeted therapies for IBD patients. Additionally, scRNA-seq may help detect signals of treatment response in IBD and tailor therapies to immune signatures present in the disease state. Overall, scRNA-seq has great potential to improve our understanding of IBD at a cellular level and lead to new treatments for this chronic autoimmune condition. This mini review discusses the emergence of single-cell technologies over the last decade and their published applications to GI disease, specifically IBD. The review also highlights how single-cell RNA sequencing can be used to better understand IBD at a cellular level and potentially lead to new treatments for this chronic autoimmune condition. However, while the review provides an overview of scRNA-seq and its potential applications in IBD research, it does not go into great detail about the technical

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aspects of the technique or how it compares to other transcriptomic approaches. Finally, the review is relatively brief and does not provide an in-depth analysis of the current state of scRNA-seq research in IBD or its potential limitations.The autrhors had better add above two contents.

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PEER-REVIEW REPORT

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Manuscript NO: 85990

Title: Application of single-cell omics in inflammatory bowel disease

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00068967
Position: Editorial Board
Academic degree: MSc, PhD

Professional title: Academic Fellow, Deputy Director, Full Professor, Professor, Senior Editor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2023-05-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-26 01:36

Reviewer performed review: 2023-06-06 06:27

Review time: 11 Days and 4 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No creativity or innovation

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Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Though SC-RNA-Seq has developed prosperously in the recent years and intended to construct a real and objective correlation between genotype to phenotype. However, these techniques could not have issued the problems at all to date. So, the goal of this review is good. The shortages of the manuscript may be less enough of related contents about GI diseases, such as cancers. Overall, this is a good paper with high quality, I recommend to accept it.The shortages of the manuscript may be less enough of related contents about GI diseases, such as cancers. I suggest author could amend some important contents.

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 85990

Title: Application of single-cell omics in inflammatory bowel disease

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01518946
Position: Editorial Board
Academic degree: MD, PhD

Professional title: Professor, Research Fellow, Senior Consultant Dermatologist

Reviewer's Country/Territory: Japan

Author's Country/Territory: United States

Manuscript submission date: 2023-05-25

Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2023-06-28 01:16

Reviewer performed review: 2023-06-28 01:21

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

I agree with the comment of the other editor and the authors.