

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 78987

Title: Single-cell RNA-seq combined with bulk RNA-seq analysis of peripheral blood reveals the characteristics and key immune cell genes of ulcerative colitis

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: 2022-07-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-08-23 04:36

Reviewer performed review: 2022-09-04 20:22

Review time: 12 Days and 15 Hours

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 Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (General priority) <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: [<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

This is a very good study, which resulted in the identification (through single cell RNA seq combined with bulk RNA seq analysis of peripheral blood) of three core immune cell genes (RhoB, CTSD and ZYX) of ulcerative colitis that are closely associated with monocyte infiltration. The clinical significance of the study is the potential use of these genes as potential diagnostic markers and molecular targets for the treatment of inflammatory bowel disease. The study is well illustrated. Literature sources are up-to-date and without self-citation. The manuscript is undoubtedly recommended for publication.

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Reviewer's code: 05847470

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: Serbia

Author's Country/Territory: China

Manuscript submission date: 2022-07-26

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-09-11 08:05

Reviewer performed review: 2022-09-19 21:37

Review time: 8 Days and 13 Hours

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
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SPECIFIC COMMENTS TO AUTHORS

In this paper, the authors performed a single-cell RNA-seq combined with bulk RNA-seq analysis of peripheral blood to better understand ulcerative colitis - pathophysiology, therapy, prognostic and predictive factors. The paper is very well written and organised. It is concise and provides us with a lot of data, clinically very interesting. Results are clear and the Discussion is precise. These results could pave the way for personalized treatment of ulcerative colitis.