

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62345

Title: Conditioned secretome of adipose-derived stem cells improves dextran sulfate sodium-induced colitis in mice

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: South Korea

Manuscript submission date: 2021-02-04

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-02-05 09:50

Reviewer performed review: 2021-02-17 21:18

Review time: 12 Days and 11 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 Grade E: Do not publish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
Peer-reviewer statements	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 research topic presented in the manuscript is highly relevant due to the increasing worldwide burden of IBD. However, responses to therapy are not always successful and new approaches are required. The positive experience of using allogeneic adipose-derived mesenchymal stem cells in perianal fistulas gives hope to IBD patients. The use of a secretome, if clinically effective, will have certain advantages, such as safety and simplification of regulatory issues. The authors have quite convincingly demonstrated the effectiveness of the secretome of adipose-derived stem cells (ADSCs) in DSS-colitis in mice by inhibiting the synthesis of pro-inflammatory cytokines in the colon and reduce serum IL-6. The secretome was more effective than ADSCs themselves, indicating an important therapeutic role for its components involved in immunomodulation and regeneration. The reviewer has no objections and comments to the study design, the structure of the manuscript, figures, and table, but it is recommended to change the title to a shorter/simpler one, for example, to 'Conditioned secretome of adipose-derived stem cells improves dextran sulfate sodium-induced colitis in mice'. Also, a link to a recent article by González-González et al in World J Stem Cells (doi: 10.4252/wjsc.v12.i12.1529) would be very relevant and helpful. The manuscript can be recommended for publication after a minor revision.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 62345

Title: Conditioned secretome of adipose-derived stem cells improves dextran sulfate sodium-induced colitis in mice

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: South Korea

Manuscript submission date: 2021-02-04

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-03-08 16:12

Reviewer performed review: 2021-03-09 17:40

Review time: 1 Day and 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 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
Peer-reviewer statements	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 research topic is very relevant and may contribute to the development of new therapeutic approaches that will be effective and safe in IBD. All comments of the reviewer were taken into account. The manuscript can be recommended for publication.