

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 64867

Title: Differences and similarities between MSC and EPC immunoregulatory properties against T cells

Reviewer's code: 03531928

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: France

Manuscript submission date: 2021-02-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-26 03:05

Reviewer performed review: 2021-02-27 11:09

Review time: 1 Day and 8 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 Grade E: Do not publish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 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 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
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



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SPECIFIC COMMENTS TO AUTHORS

The author of this paper has rich experience in the study of EPCs and MSCs, and confirmed that they have a certain level of immune regulation function. For the first time, there are similarities and differences between them in T cell immune regulation. It is confirmed that MSCs have stronger immunosuppressive and immunosuppressive effects, and immunomodulators are better than CB and APB EPCs. And the TNF α -TNFR2 axis leads to the complete disruption of EPC and has a significant impact on MSC immunomodulatory functions. To provide a theoretical basis for clinical application in cancer, transplantation and inflammatory diseases in the future. This is indeed a very interesting study, on the basis of which we can further study the immune interaction between MSCs and EPCs and T cells, and we believe that there will be more harvest.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 64867

Title: Differences and similarities between MSC and EPC immunoregulatory properties against T cells

Reviewer's code: 03448879

Position: Editorial Board

Academic degree: MD

Professional title: Chief Doctor, Deputy Director, Professor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: France

Manuscript submission date: 2021-02-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-26 08:21

Reviewer performed review: 2021-03-05 08:41

Review time: 7 Days

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 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



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SPECIFIC COMMENTS TO AUTHORS

It is a nicely written review on an interesting topic, the comparison between MSCs and EPCs on their immunoregulatory abilities could be useful in guiding future application. Some questions are raised as follows: Page 3, line 42: Some abbreviations were explained at their first appearance while some were not, for instance, CB. I understand that there is a list of abbreviations, but it is better to unify the format. Page 4, line 12: It is better to add a citation of the website. Table 1 and 2: How were the abilities quantified? Further language editing is required. The manuscript appears to be short for a review.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 64867

Title: Differences and similarities between MSC and EPC immunoregulatory properties against T cells

Reviewer's code: 05816287

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: France

Manuscript submission date: 2021-02-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-27 10:15

Reviewer performed review: 2021-03-12 19:42

Review time: 13 Days and 9 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 type="checkbox"/> Minor revision <input checked="" 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

In this review, the authors propose a comparison between bone-marrow-derived mesenchymal stem cells (MSCs) and endothelial progenitor cells (EPCs) related to immunoregulatory effect of these two populations. The work is well organized in its parts. Overall, this work is interesting, underlining the key point of MSC and EPC immunoregulatory and it could provide a starting point for further studies aimed at the development of innovative drugs and therapies. However, there are some points to address:

- The authors reported substantially only their own data about EPC immunomodulation. Are they sure that further data are not present in the literature? Otherwise they should be included in the review.
- In 2.3 section the authors should introduce, also in minimal part, $\text{TNF}\alpha$ and TNFR2 related to general aspect.
- Also, in the conclusion part of this review the authors should highlight mostly therapeutic implications about TNF-TNF Receptor 2.
- Table 1 and Table 2 are not very explanatory, the authors should explain the criteria used to create the tables and the value assigned.
- The authors should expand 2.2 section introducing Treg cells and pathway related to Treg induction.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Stem Cells

Manuscript NO: 64867

Title: Differences and similarities between MSC and EPC immunoregulatory properties against T cells

Reviewer's code: 05816287

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: France

Manuscript submission date: 2021-02-24

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-05-27 12:35

Reviewer performed review: 2021-05-29 08:30

Review time: 1 Day and 19 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 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



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The paper has been now improved