PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 91115

Title: Understanding host-graft crosstalk for predicting the outcome of stem cell transplantation

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 07939965

Position: Peer Reviewer

Academic degree: Doctor

Professional title: Doctor

Reviewer’s Country/Territory: China

Author’s Country/Territory: Romania

Manuscript submission date: 2023-12-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-12-23 04:43

Reviewer performed review: 2023-12-23 07:12

Review time: 2 Hours

<table>
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<tr>
<th>Scientific quality</th>
<th>[ ] Grade A: Excellent</th>
<th>[ ] Grade B: Very good</th>
<th>[ Y] Grade C: Good</th>
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<tr>
<td></td>
<td>[ ] Grade D: Fair</td>
<td>[ ] Grade E: Do not publish</td>
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<tr>
<th>Novelty of this manuscript</th>
<th>[ ] Grade A: Excellent</th>
<th>[ Y] Grade B: Good</th>
<th>[ ] Grade C: Fair</th>
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<td>[ ] Grade D: No novelty</td>
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<tr>
<th>Creativity or innovation of this manuscript</th>
<th>[ ] Grade A: Excellent</th>
<th>[ Y] Grade B: Good</th>
<th>[ ] Grade C: Fair</th>
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The manuscript aimed at Mesenchymal stromal cells (MSCs) hold great promise for tissue regeneration in debilitating disorders. This Editorial focus on the paper by Abu-El-Rub E et al, which about regulate stress microenvironments to improve cell survival. 1. Further checking of manuscript, such as font and spacing. 2. "The multifaceted aspects of the challenges point towards the necessity of approaching them by means of a holistic view where large data, computational disease modelling and perhaps the use of artificial intelligence could offer some valuable insights." can be more detailed. 3. This manuscript should pay more attention on how stress microenvironments make effect on Mscs cell survival.
Name of journal: World Journal of Stem Cells

Manuscript NO: 91115

Title: Understanding host-graft crosstalk for predicting the outcome of stem cell transplantation

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 05372567

Position: Editorial Board

Academic degree: MD

Professional title: Assistant Professor, Surgeon, Surgical Oncologist

Reviewer’s Country/Territory: China

Author’s Country/Territory: Romania

Manuscript submission date: 2023-12-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-12-24 02:29

Reviewer performed review: 2023-12-24 02:32

Review time: 1 Hour

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### Scientific significance of the conclusion in this manuscript

- [ ] Grade A: Excellent
- [Y] Grade B: Good
- [ ] 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)
- [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

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**SPECIFIC COMMENTS TO AUTHORS**

This manuscript is already at a high level and may be accepted.