

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Stem Cells*

**Manuscript NO:** 74722

**Title:** Disagreements in the therapeutic use of mesenchymal stem cell-derived secretome

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 02446101

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor, Surgeon

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Hungary

**Manuscript submission date:** 2022-01-03

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-04 14:09

**Reviewer performed review:** 2022-01-04 15:06

**Review time:** 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ] Yes [ **Y** ] No

#### **SPECIFIC COMMENTS TO AUTHORS**

In this manuscript, the authors proposed that the use of MSC-derived secretomes for therapeutic purposes must be approached with extreme caution. I totally agree with them. Secretomes is currently one of the hottest spots in the stem cells field. There is no doubt that its safety is the most important issue. So, acceptance should be recommended for this manuscript.

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**Title:** Disagreements in the therapeutic use of mesenchymal stem cell-derived secretome

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**Peer-review model:** Single blind

**Reviewer's code:** 00724464

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Brazil

**Author's Country/Territory:** Hungary

**Manuscript submission date:** 2022-01-03

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-05 21:33

**Reviewer performed review:** 2022-01-10 13:10

**Review time:** 4 Days and 15 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

The manuscript "Disagreements in the therapeutic use of mesenchymal stem cell-derived secretome" (Manuscript Type: Field of Vision) presents a perspective on the use of secretomes, with their advantages and disadvantages in relation to MSCs. I am in favor of publication.

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**Title:** Disagreements in the therapeutic use of mesenchymal stem cell-derived secretome

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03550401

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Hungary

**Manuscript submission date:** 2022-01-03

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-04 00:20

**Reviewer performed review:** 2022-01-15 13:58

**Review time:** 11 Days and 13 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

This review aims to summary the disagreements in the therapeutic use of mesenchymal stem cell-derived secretome. However, the manuscript is not well written. 1. Abstract should be independent and self-explanatory, and have the same amount of main information as the literature, that is, the necessary information can be obtained without reading the full text. However, the summary written by the author lacks logic and fails to name the significance of writing this review. 2. The purpose of this article is to elucidate the disagreements in the therapeutic use of mesenchymal stem cell-derived secretome. However, the full text of the summary of this part of the content is too single, too few references. For example, advantages and disadvantages of secretory and conditioned media from MSCs derived secretome as new therapeutic strategies. Immunomodulation and antiinflammatory activity of MSCs derived secretome. Anti-apoptotic activity, wound healing and tissue repair effects, and neuroprotective and neurotrophic effects of MSCs derived secretome , etc. 3. The content of introduction should include: why is this study conducted? What is the theoretical or practical basis for setting the topic? What are the innovations? What are the theoretical and/or practical implications? This review does not have this part. 4. The discussion section should define the key words involved in the paper's ideas, what scope to discuss the problem, how to use this idea. The discussion section of this review should be rewritten. 5. There are misnomers and grammatical errors in the language, which need to be further modified.