

## PEER-REVIEW REPORT

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

**Manuscript NO:** 64994

**Title:** Programmed cell death in stem cell-based therapy: Mechanisms and clinical applications

**Reviewer's code:** 00418345

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-02-26

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-02-26 09:37

**Reviewer performed review:** 2021-02-27 07:32

**Review time:** 21 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

This review manuscript has good points and bad points (1) Good points Data in table are rich Comprehensive topics are selected References are rich. (2) Bad points This is story less fact assembly. Figures are too comprehensive and each topic was not visually explained. Comprehensive discussions are less. The current manuscript can be regarded as huge fact assembly rather than review article with logical flow. In order to fix these points, the following revisions are suggested. (i) Please provide more figures to explain each topics. (ii) Figure 1 and graphical abstract are confused. Please fix this point. (iii) Please provide one section for comprehensive discussions on comparisons of each topic. (iv) Descriptions of Conclusion sections have to be much strengthened including perspective discussions.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 64994

**Title:** Programmed cell death in stem cell-based therapy: Mechanisms and clinical applications

**Reviewer's code:** 00505755

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Senior Research Fellow

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

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

**Manuscript submission date:** 2021-02-26

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-03-10 02:01

**Reviewer performed review:** 2021-03-11 01:51

**Review time:** 23 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 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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

This is a comprehensive review on programmed cell death in stem cell-based therapy. Apoptosis, autophagy, necroptosis and other programmed cell death such as ferroptosis and pyroptosis are described with regards to the molecular pathways. Table 1 may be revised to have a different column name for "PCDs in SCs" since some of the studies include necrosis. The