



## PEER-REVIEW REPORT

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

**Manuscript NO:** 65221

**Title:** Stem cell therapies in cardiac diseases: Current status and future possibilities

**Reviewer's code:** 05468066

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Senior Lecturer

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

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

**Manuscript submission date:** 2021-03-01

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-06-19 03:25

**Reviewer performed review:** 2021-06-25 07:10

**Review time:** 6 Days and 3 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<br><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 Grade E: Do not publish            |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 type="checkbox"/> Grade B: Minor language polishing<br><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)<br><input checked="" 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 statements</b> | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous<br>Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |



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

The authors have written this manuscript on an interesting topic. The authors have covered most of the areas related to this topic. They have carefully reported the pre-clinical and clinical studies mentioning the species were involved, and cell types were used. However, this manuscript requires major English revision to improve readability.



## PEER-REVIEW REPORT

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

**Manuscript NO:** 65221

**Title:** Stem cell therapies in cardiac diseases: Current status and future possibilities

**Reviewer's code:** 05122799

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Full Professor

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

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

**Manuscript submission date:** 2021-03-01

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-06-21 01:00

**Reviewer performed review:** 2021-07-02 23:51

**Review time:** 11 Days and 22 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<br><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<br><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)<br><input checked="" 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 statements</b> | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous<br>Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |



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

In the manuscript titled with “Stem Cell Therapies in Cardiac Diseases: Current Status and Future Possibilities”, Tais Hanae Kasai-Brunswick and colleagues did a good job in introducing the research history of stem cells in heart and summarizing the clinical trials and possible therapies based on endogenous stem cells or pluripotent stem cell derivatives. They also discussed future directions regarding in situ reprogramming and lineage differentiation. In general this manuscript is well organized. The only concern I have is the authors put many efforts on history (which has been also extensively reviewed in other papers) but relatively few on recent progresses, particularly the achievements in cardiac differentiation from pluripotent stem cells (in terms of functional maturity) during the last three years.