

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 82112

Title: Banking of perinatal mesenchymal stem/stromal cells for stem cell-based personalized medicine over lifetime: Matters arising

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05224683

Position: Peer Reviewer

Academic degree: DSc, MSc

Professional title: Postdoc, Postdoctoral Fellow, Research Scientist, Senior Scientist

Reviewer's Country/Territory: Bangladesh

Author's Country/Territory: China

Manuscript submission date: 2022-12-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-12-12 23:57

Reviewer performed review: 2022-12-13 00:10

Review time: 1 Hour

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|--------------------|---|
| 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 Grade E: Do not publish |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 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 checked="" type="checkbox"/> Accept (High priority) <input 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 |



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

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| 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

This is an important review regarding the MSCs. In near future, Personalized medicine therapy will exclusively depend on this MSC. There are some research institute in Canada has the MSC bank, but it is very expensive for the storage of cell bank.

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Peer-review model: Single blind

Reviewer's code: 04861666

Position: Peer Reviewer

Academic degree: BSc, MSc, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2022-12-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-12-09 05:44

Reviewer performed review: 2022-12-20 11:01

Review time: 11 Days and 5 Hours

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|---------------------------|---|
| Scientific quality | <input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish |
| Language quality | <input type="radio"/> Grade A: Priority publishing <input checked="" type="radio"/> Grade B: Minor language polishing <input type="radio"/> Grade C: A great deal of language polishing <input type="radio"/> Grade D: Rejection |
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| | Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No |

SPECIFIC COMMENTS TO AUTHORS

Mesenchymal stromal/stem cells (MSCs) holds unique properties which has attracted significantly attention for their banking ffor a better appication in future regenerative medicine and tissue engineering. But their banking has raised serious concerns pertaining to the maintenance of functionality and stability of stem cells along with therapeutic potential of MSCs is concerns. In the current article authors have reviewed the current research related to the potential use of banked perinatal MSCs as the future personalized medicine. They have also highlights several key observations in regard to the limitation of perinatal MSCs stored in stem cell cryobanks for future personal or family use. At the end they have provides several practical recommendations for banking of perinatal MSCs for better application in future. Manuscript is well written and very important in the field of regenerative medicines. Opinions and suggestions discussed will be significantly useful in their future banking.