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Response letter

January 7, 2023

Dear Editor(s) and Reviewers,

Thank you very much for giving us the opportunity to resubmit a revised version of the manuscript “Banking of perinatal mesenchymal stem/stromal cells for stem cell-based personalized medicine over lifetime: Matters arising” for further consideration for publication in the World Journal of Stem Cells. We are heartily grateful to the reviewers, the editors and the editorial staff for their precious time and efforts for evaluation of our manuscript. We highly appreciate their positive comments and valuable suggestions for our manuscript revision. We have incorporated all comments/suggestions made by the reviewers and the editor(s). We have checked with grammar and syntax throughout the article and performed further language revision. We are looking forward to a favorable decision regarding the publication of our work in the World Journal of Stem Cells.

Yours sincerely,

On behalf of the co-authors

Bin Wang

Reviewers’ comments

A point-by-point response to Reviewer #1:

“Scientific Quality: Grade A (Excellent)”

“Language Quality: Grade B (Minor language polishing)”

“Conclusion: Accept (General priority)”

Specific Comments to Authors: “Mesenchymal stromal/stem cells (MSCs) holds unique properties which has attracted significantly attention for their banking for a better application 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.”

Response: We highly appreciate Reviewer #1 for these comments. We have checked with grammar, spelling, improper statements and syntax throughout the manuscript and further performed language revision.

i. In line 112-113, page 4, sentence was reorganized. Also, line 191-192, page 7, line 327-329, page 12, line 337-338, page 12, line 447-450, page 16, and line 503-505, page 17, sentences were also reorganized, respectively.

ii. The typo “UNCERTATIES” in line 148, page 6, the typo “maters” in line 205, page 8 the typo “grapheme” in line 316, page 11, and the typo “perital”, “immunomodulation”, “priviledged”, and “funtionality” in Figure 2 were corrected. We are sorry for that.

iii. According to the *Guidelines and Requirements for Manuscript Revision: Opinion Review*, we have shorten the running title to no more than 6 words.

iv. In figure 2, we have modified the one-line title.

v. According to the *Guidelines and Requirements for Manuscript Revision: Opinion Review*, we have revised the italics such as *i.e.*, *e.g.*, *etc.*, *in vitro*, *in vivo* in the text and in Figures. Meanwhile, we have also modified References as per format for references guidelines, including the reference numbers superscripted in square brackets in the text.

A point-by-point response to Reviewer #2:

“Scientific Quality: Grade B (Very good)”

“Language Quality: Grade A (Priority publishing)”

“Conclusion: Accept (High priority)”

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.”

Response: Thank you very much for this comment. We agree with you that personalized medicine therapy will exclusively depend on this MSCs in near future.

Editorial office’s comments:

Science editor: “The manuscript has been peer-reviewed, and it' s ready for the first decision.”

“Language Quality: Grade B (Minor language polishing)”

“Scientific Quality: Grade B (Very good)”

Company editor-in-chief: “I have reviewed the Peer-Review Report and the full text of the manuscript, all of which have met the basic publishing requirements of the World Journal of Stem Cells, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office’s comments and the Criteria for Manuscript Revision by Authors. The quality of the English language of the manuscript does not meet the requirements of the journal. Before final acceptance, the author(s) must provide the English Language Certificate issued by a professional English language editing company. Please visit the following website for the professional English language editing companies we recommend: <https://www.wjgnet.com/bpg/gerinfo/240>. Before final acceptance, when revising the manuscript, the author must supplement and improve the highlights of the latest cutting-edge research results, thereby further improving the content of the manuscript. To this end, authors are advised to apply a new tool, the Reference Citation Analysis (RCA). RCA is an artificial intelligence technology-based open multidisciplinary citation analysis database. In it, upon obtaining

search results from the keywords entered by the author, "Impact Index Per Article" under "Ranked by" should be selected to find the latest highlight articles, which can then be used to further improve an article under preparation/peer-review/revision. Please visit our RCA database for more information at: <https://www.referencecitationanalysis.com/>. Uniform presentation should be used for figures showing the same or similar contents; for example, "Figure 1 Pathological changes of atrophic gastritis after treatment. A: ...; B: ...; C: ...; D: ...; E: ...; F: ...; G: ...". Please provide decomposable Figures (in which all components are movable and editable), organize them into a single PowerPoint file. Please check and confirm whether the figures are original (i.e. generated de novo by the author(s) for this paper). If the picture is 'original', the author needs to add the following copyright information to the bottom right-hand side of the picture in PowerPoint (PPT): Copyright ©The Author(s) 2022."

Response: Thank you very much for giving us this opportunity to revise our manuscript. We have carefully revised our manuscript based on reviewers' comments. Meanwhile, we have further performed language revision and, similarly, we have made our responses to the comment from Reviewer #1. Please see the mentioned above. We appreciate your comments and thank you very much for the help to improve our manuscript revision.