

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 57971

Title: Stem cell transplantation and/or adenoviral GDNF promoted functional recovery in hemiparkinsonian rats

Reviewer's code: 03808474

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Iran

Author's Country/Territory: Taiwan

Manuscript submission date: 2020-07-21

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-09-22 03:16

Reviewer performed review: 2020-09-29 04:21

Review time: 7 Days and 1 Hour

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 Grade E: Do not publish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 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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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

The results presented in the manuscript entitled “Stem cell transplantation and/or adenoviral GDNF promoted functional recovery in hemiparkinsonian rats” are in a logical sequence with appropriate analysis with figures to that contain data to inform the readers. The manuscript is interesting to warrant publication in “World Journal of Stem Cells” after revision. 1) The hypothesis of this study must be added at the end of the “Introduction section”. 2) The ethical code must be added in the text of the manuscript. 3) Whole part of “Methods section” must be referred with related references. 4) The identification and characterization method of isolated mesenchymal stem cells must be mentioned in detail in the “Methods section”. You can use and refer the following papers which explained elaborately and completely the “flow cytometric analysis and multi-lineage differentiation method for characterization of mesenchymal stem cells”:

Immunophenotypic characterization, multi-lineage differentiation and aging of zebrafish heart and liver tissue-derived mesenchymal stem cells as a novel approach in stem cell-based therapy. *Tissue and Cell*. 2019 Apr 1;57: 15-21. Interleukin-6, -8, and TGF- β Secreted from Mesenchymal Stem Cells Show Functional Role in Reduction of Telomerase Activity of Leukemia Cell Via Wnt5a/ β -Catenin and P53 Pathways. *Advanced Pharmaceutical Bulletin*. 2020 Jun;10(2):307. 5) The co-culture method was explained elaborately in reference appears bellow, you can use and refer it: Interleukin-6, -8, and TGF- β Secreted from Mesenchymal Stem Cells Show Functional Role in Reduction of Telomerase Activity of Leukemia Cell Via Wnt5a/ β -Catenin and P53 Pathways. *Advanced Pharmaceutical Bulletin*. 2020 Jun;10(2):307. 6) Also, since the discussion section is one of the most important parts of the paper, this section must be improved with more attention and explanation. In the discussion section, results must be compared with another results from previous studies. Also, you can discuss the



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signaling pathways related to neurodegenerative disease. In this regard, you can use the following paper which demonstrated the role of mesenchymal stem cell as a Candidate for further studies in cell-based therapy of Alzheimer's disease via signaling pathways:

Mesenchymal Stem Cells Could Be Considered as a Candidate for Further Studies in Cell-Based Therapy of Alzheimer's Disease via Targeting the Signaling Pathways. ACS Chemical Neuroscience. 2020 Apr 20;11(10):1424-35. 7) The number of references are limited. Please extend them.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Stem Cells

Manuscript NO: 57971

Title: Stem cell transplantation and/or adenoviral GDNF promoted functional recovery in hemiparkinsonian rats

Reviewer's code: 03808474

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Iran

Author's Country/Territory: Taiwan

Manuscript submission date: 2020-07-21

Reviewer chosen by: Chen-Chen Gao

Reviewer accepted review: 2020-11-05 06:26

Reviewer performed review: 2020-11-05 06:47

Review time: 1 Hour

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
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



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All comments have been implemented in the revised version of the manuscript.