

CHECKLIST OF RESPONSIBILITIES FOR SCIENTIFIC EDITORS

Manuscript page number (Without Figures): 38 Rate: 6.2 CNY per page

Editing Fee: 235.6 CNY

Figure count: 3 Figure handling time: 40 min Rate: 1 CNY per min

Editing Fee: 40 CNY

XML and PDF converting time: 40 min Rate: 1 CNY per min

Editing Fee: 40 CNY

Manuscript word count: 11853

Total Editing Fee: 315.6 CNY

Item No.	Specific items for verification	Comments Yes=[Y] No=[N]
1	<i>General Information of the Manuscript</i> Name of journal: World Journal of Stem Cells Manuscript NO.: 68279 Column: Review Title: Dental mesenchymal stromal/stem cells in different microenvironments – implications in regenerative therapy Authors: Ivana Okić-Đorđević, Hristina Obradović, Tamara Kukolj, Anđelija Petrović, Slavko Mojsilović, Diana Bugarski and Aleksandra Jauković Reviewer code: 03810998, 00504362, 04738361, and 04738361 First decision: 2021-06-05 01:33 Scientific Editor: Kai-Le Chang (Online Science Editor) Date of signature: <u>11/23/2021</u> (month/day/year)	[Y]

2	<i>Editorial Office's Comments</i> Science Editor: 1 Scientific quality: The manuscript describes a review Dental mesenchymal stromal/stem cells in different microenvironments - implications in regenerative therapy. The topic is within the scope of the World Journal of Stem Cells. (1) Classification: Grade C (Good), Grade B (Very good), Grade B (Very good); (2) Summary of the Peer-Review Report: A. This is a very interesting and well-written manuscript in an emerging and hot topic in biomedical research. The article covers the most important topics on the role of different environments on dental mesenchymal stromal/stem cells and its implications in regenerative therapy B. This is an interesting review paper to summarize the effects of hypoxic and inflammatory microenvironment on the differentiation capacity of dental MSCs. The review is well written and it will be useful for the researchers in this field. I suggest the author prepare one more table (table 2) to introduce how the inflammatory factors regulate the regenerative potential of human dental mesenchymal stem cells. C. Manuscript ID 68279 describes different dental MSCs and compares their reaction in hypoxia and inflammatory conditions. This is a very interesting manuscript. Especially the first section that anatomically describes the dental tissues is missing in the other similar review articles. Although this is a great work the following points need to be clarified before its publication. * Please add line's number. * The references are sometimes very old. * Page 5 , paragraph 2; MSCs exist in many fetal tissues as well.	[Y]
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Please correct this sentence. * Page 6, line 7 needs a reference. *

Concerning the immunoregulatory aspect of MSCs, the authors have mentioned that the mechanism behind their function is not elucidated. This is not quite true. Please refer to these recently published references to build up this section. (PMIDs: 33344453, 32669116, 33303019, 30359308). * Important! Although figure 1 is interesting, the authors need to illustrate more figures mostly on the functions MSCs. * Important! Regarding the role of hypoxia and inflammation on MSC's osteogenic and adipogenic capacities, the authors have only mentioned different published results in recent years. Please discuss what you think about these controversial results? In general author's viewpoint is missing in this manuscript.

(3) Format: There are 1 table and 1 figure. (4) References: A total of 134 references are cited, including 47 references published in the last 3 years; (5) Self-cited references: There are 0 self-cited references. The self-referencing rates should be less than 10%. Please keep the reasonable self-citations that are closely related to the topic of the manuscript, and remove other improper self-citations. If the authors fail to address the critical issue of self-citation, the editing process of this manuscript will be terminated; and (6) References recommend: The authors have the right to refuse to cite improper references recommended by peer reviewer(s), especially the references published by the peer reviewer(s) themselves. If the authors found the peer reviewer(s) request the authors to cite improper references published by

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	medicine formula on non-alcoholic fatty liver disease. World J Gastroenterol 2019; 25(34): 5105-5119. Copyright ©The Author(s) 2019. Published by Baishideng Publishing Group Inc [5]". And please cite the reference source in the references list. If the author fails to properly cite the published or copyrighted picture(s) or table(s) as described above, he/she will be subject to withdrawal of the article from BPG publications and may even be held liable. 6 Recommendation: Conditional acceptance. Company Editor-in-Chief: I have reviewed the Peer-Review Report, full text of the manuscript, and the relevant ethics documents, 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.	
3	The fixed headings are copied.	[Y]
4	The title concisely summarizes the main topic of the study and is not too long (no more than 18 words). Words such as 'exploration', 'research', 'analysis', 'observation', and 'investigation' are avoided. The title does not start with 'The' and does not include any Arabic numbers or uncommon abbreviations.	[Y]
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	Non-structured abstract that is no less than 150 words. <u>Research articles:</u> Structured abstract with subsections for AIM (no more than 20 words); METHODS (no less than 80 words); RESULTS (no less than 120 words); and CONCLUSION (no more than 26 words).	
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14	The 'Core tip' provides a summary (less than 100 words) of the study that outlines the most innovative and important arguments and core contents of the paper and will serve to effectively attract readers.	[Y]
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	by the author(s). When weaknesses of previous studies are described in the text to highlight the innovations related to the current study, the information is presented carefully.	
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19	The 'DISCUSSION' section (1) describes the main purpose and hypothesis of the study; (2) summarizes the most important results; (3) illustrates and explains the results (but does not simply repeat the data) and draws conclusions or inferences based on the results; (4) points out the limitations of the study and their impact on the results, as well as proposes further advice on future research topic(s) or direction(s); and (5) describes the theoretical significance and practical value of the findings.	[N]
20	The 'ACKNOWLEDGEMENTS' section expresses gratitude to any individuals or organizations for technical support (<i>i.e.</i> , providing instrumentation, equipment or experimental materials, and/or assistance in experimental work), non-technical services (<i>i.e.</i> , useful inspiration, suggestions, guidance, or review), and/or any other auxiliary work.	[N]
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