PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 56906

Title: Mass acquisition of human periodontal ligament stem cells

Reviewer's code: 05384690

Position: Peer Reviewer

Academic degree: DDS, MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2020-05-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-05-19 16:00

Reviewer performed review: 2020-05-20 08:14

Review time: 16 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The present review by Hidefumi Maeda focuses on studies about PDLSC-based therapy to periodontal defects and the methods of how to acquire large numbers of PDLSCs. The manuscript may be meaningful to the scientists and dentists devote to research periodontal diseases, particularly for researchers that are interested in tissue regeneration. The figures in this review which make it readability and help to understand the argument. Maybe the figure legends can be more detailed.   And there is a review introduces noncoding RNAs involved in the osteogenic differentiation of periodontal ligament stem cells published in the latest issue of WJSC. The author may be interested to read the newly published paper about PDLSCs.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 56906

Title: Mass acquisition of human periodontal ligament stem cells

Reviewer's code: 03808952

Position: Editorial Board

Academic degree: DDS, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-05-19 06:45

Reviewer performed review: 2020-05-26 07:49

Review time: 7 Days and 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The minireview by Hidefumi Maeda summarized the method to collect large scale of of human periodontal ligament stem cells. It's potential interesting and useful for the periodontal bone regeneration. The author listed two approaches :reprogrammed cells and iPS cells, which both need gene transfection. Whether these could be used in clinic, and the advantage and disadvantage needed to be added.