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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 61689

Title: Multi-differentiation potential of dental-derived stem cells

Reviewer's code: 00505327
Position: Peer Reviewer
Academic degree: PhD
Professional title: Associate Professor
Reviewer's Country/Territory: United States
Author's Country/Territory: China

Manuscript submission date: 2020-12-21
Reviewer chosen by: Ya-Juan Ma
Reviewer accepted review: 2021-01-18 13:28
Reviewer performed review: 2021-01-27 16:50
Review time: 9 Days and 3 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

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SPECIFIC COMMENTS TO AUTHORS

The review on dental stem cells by the authors is comprehensive and covers all aspects of dental stem cells. Differentiation of the cells into different cell types is well discussed. The authors did not discuss application of the cells to the regeneration of bone, cartilage and tendon and ligament which are are the pertinent tissues that the cells would have greater application. Differentiation into neurons and insulin producing cells could probably be due to the invitro culture conditions or does this really represent true differentiation of these cell lineages to the these cell lineages. Authors could discuss this in the review whether this could be a possibility.