

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 65130

Title: Epigenetic regulation of dental pulp stem cells and its potential in regenerative endodontics

Reviewer's code: 04011245

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2021-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-09 09:07

Reviewer performed review: 2021-04-09 10:38

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" 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 type="checkbox"/> Yes <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

The authors aimed to discuss epigenetic mechanisms, including noncoding RNAs, histone modifications, and DNA methylation and research progress in modulating cell fate determination of DPSCs. In fact, it has become clear that the epigenetic layer of regulation plays an essential role in pulp-dentin regeneration based on DPSCs, and has great potential in RE, which is also discussed in the proposed review. The manuscript is addressing an interesting point. The structure of the manuscript appears adequate and well divided in the sub-paragraphs. The study is easy to follow but some issues should be improved before publication. The manuscript needs moderate English change and grammar correction. Please also check typos thorough the text. PDPSCS, SHEDS AND THEIR CHARACTERISTICS section: Will be useful to the reader to add some interesting literature describing regenerative potentialities and translational applications of dental-derived stem cells (please see and briefly discuss: PMID: 29445404; PMID: 33101420; PMID: 31696459; PMID: 30008608; PMID: 29254292) as well some main molecular mechanism including stemness properties (PMID: 31002142; PMID: 30840286). Conclusion Section: This paragraph required a general revision to eliminate redundant sentences and to add some "take-home message".