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JOURNAL EDITORIAL BOARD'S REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 90788

Title: Self-assembly of differentiated dental pulp stem cells facilitates spheroid human dental organoid formation and prevascularization

Journal Editor-in-Chief/Associate Editor/Editorial Board Member: Shengwen Calvin Li

Country/Territory: United States

Editorial Director: Jia-Ping Yan

Date accepted review: 2024-02-18 20:32

Date reviewed: 2024-02-19 22:48

Review time: 1 Day and 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION
[Y] Grade A: Excellent	[Y] Grade A: Priority publishing	[ ] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Rejection
[ ] Grade D: Fair		[Y] Minor revision
[ ] Grade E: Poor	[ ] Grade D: Rejected	[ ] Major revision

JOURNAL EDITORIAL BOARD COMMENTS TO AUTHORS

Specific comments: 1) Fig 2 A: Human dental pulp stem cell surface marker identification. Bar graphs should be used to show the right shift from isotype controls, which is a standardized representation of FACS data. 2) Fig 2B. Scale bars should be added to all the imaging panels. 3) Fig 3. The cell compositions of prevascularized dental pulp organoids (Vorganoids) in vitro cultured should be compared with the in vivo counterpart to be functional. The authors needed to straighten such a point for the readers. Organoids differ from the in vivo counterpart of tightly controlled structures. The limitations of organoids are that they are not highly representative of the in vivo counterpart regarding cell composition and structure; thus, organoids are not highly reproducible. Refer to Fig 4 for the mathematics of in vivo structure. 4) Refer to Q3 to Fig 5: How much such organoids represent the in vivo counterpart of tightly controlled structures? 5) Fig 7: Not only did the structure of organoids but also the structure affect the function of the in vitro assembly: Both are essential.

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Neither is a minus. The integration should be focused on building a functional unit.