

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 58632

Title: Proliferation and tenogenic differentiation of BMSCs in a porous collagen sponge scaffold

Reviewer's code: 00546602

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Australia

Author's Country/Territory: China

Manuscript submission date: 2020-08-11

Reviewer chosen by: Pan Huang

Reviewer accepted review: 2020-10-02 00:54

Reviewer performed review: 2020-10-15 02:28

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Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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 type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

Tenogenic differentiation of BMSCs in tendon tissue engineering is actively investigated for developing affective therapeutics. Authors in this MS have proposed that collagen sponge-based 3D culture is more favorable for cells to respond to growth factors and demonstrated that TGF- β 1 is more effective in the tenogenic differentiation of BMSCs compared to GDF-7 and IGF-1. The experimental plan is properly laid out and significant data are obtained. These findings are helpful towards a better understanding of the role of growth factors in regulating the tenogenic differentiation of BMSCs in tendon tissue engineering. I have no hesitation in recommending this MS for publication