

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Stem Cells

Manuscript NO: 63568

Title: Comprehensive immunohistochemical evaluation of human tendon repair following injection of autologous, unmodified stem cells: a first-in-human case report

Reviewer's code: 03840803

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Germany

Manuscript submission date: 2021-01-29

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-04-30 21:03

Reviewer performed review: 2021-04-30 21:44

Review time: 1 Hour

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 Grade E: Do not publish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 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

SPECIFIC COMMENTS TO AUTHORS



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The reviewer respectfully disagree with the authors with reference to previous comments related to the use of the CD34 marker. CD34 is widely used and validated as pan-endothelial cell marker in immunohistochemical analyses. CD34 is expressed in the adult with some heterogeneity by blood endothelial cells in most vascular beds. It is a pan-endothelial marker of microvascular endothelial cells that is not expressed by most large vessel endothelial cells. Blood capillary endothelial cells are CD34+ in nearly every tissue. For instance, please see: - Baumhueter S, Dybdal N, Kyle C, Lasky LA. Global vascular expression of murine CD34, a sialomucin-like endothelial ligand for L-selectin. *Blood*. 1994;84:2554-2565. - Fina L, Molgaard HV, Robertson D, Bradley NJ, Monaghan P, Delia D, Sutherland DR, Baker MA, Greaves MF. Expression of the CD34 gene in vascular endothelial cells. *Blood*. 1990;75:2417-2426. Moreover, please see The Human Protein Atlas for reference: <https://www.proteinatlas.org/ENSG00000174059-CD34/tissue> Therefore, all relevant concerns on CD34/vessel staining/angiogenesis that have not been addressed by the authors should be carefully reconsidered.