



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 58549

**Title:** Prior Transfusion of Umbilical Cord Mesenchymal Stem Cells Can Effectively Alleviate Symptoms of Motion Sickness in Mice Through IL-10 Secretion

**Reviewer's code:** 02446061

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor, Research Scientist

**Reviewer's Country/Territory:** Mexico

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-07-31

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-09-27 17:48

**Reviewer performed review:** 2020-10-01 01:35

**Review time:** 3 Days and 7 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 content is interesting but interpretation seems to be speculative. The links between effect of stem cells transplantation, IL-10 and pathways should be clear. In this presentation we could to request additional groups inducing IL-10 increase or the application of IL-10, but not only a disruption of IL-10 production or action by AS-101 (which could disrupt other Il-production, as it is known as a a potent in vitro and in vivo immunomodulator, is a novel inhibitor of IL-1beta converting enzyme). Some related papers should be revised and considered to discussion: - Peripheral anti-inflammatory cytokine Interleukin-10 treatment mitigates interleukin-1 $\beta$  - induced anxiety and sickness behaviors in adult male rats. Munshi S, Parrilli V, Rosenkranz JA. *Behav Brain Res.* 2019 Oct 17;372:112024. - IL-10 Dysregulation in Acute Mountain Sickness Revealed by Transcriptome Analysis. Liu B, Chen J, Zhang L, Gao Y, Cui J, Zhang E, Xu G, Liang Y, Liang Y, Wang J, Gao Y. *Front Immunol.* 2017 May 30;8:628. Please edit the manuscript to be clear. Limit the speculation and discuss deeply on the obtained results. Please add sentences about the limitations of the study before the suggested eperiments and approaches for continung the putative impact of stem cells in this way.



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**Reviewer's code:** 00505593

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Adjunct Professor

**Reviewer's Country/Territory:** United States

**Author's Country/Territory:** China

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**Reviewer chosen by:** Jia-Ping Yan

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<b>Scientific quality</b>	<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
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good manuscript