

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 85722

Title: Multiomics reveal human umbilical cord mesenchymal stem cells improving acute lung injury via the lung-gut axis

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05246699

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Academic Research, Chief Physician

Reviewer's Country/Territory: Iran

Author's Country/Territory: China

Manuscript submission date: 2023-05-12

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-03 07:05

Reviewer performed review: 2023-06-11 08:48

Review time: 8 Days and 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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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
Re-review	<input checked="" type="checkbox"/> Yes <input 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

SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled “Human umbilical cord mesenchymal stem cells attenuate LPS-induced acute lung injury via reshaping the gut and lung microbiota” appears to be interesting. The structure of the manuscript appears adequate and well divided in the sub-paragraphs. Moreover, the study is easy to follow, but some issues should be improved. 1. Title: the title is not appropriate. I suggesting making up it. 2. Paper is replete with some of grammatical mistakes. Needs rewriting and thorough evaluation. For example, “that HUC-MSCs improve ALI by via lung-gut microflora”. 3. Some references missing. For example, " The homeostasis of gut microbiota is reported to be important for human health including modulatory effects on acute lung injury.”and etc. 4. In order to make the paper more interesting to read, I suggested that the authors could add one graphical abstract to the manuscript. 5. I suggest including clear limitations of the study in the discussion.

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Reviewer's code: 05224683

Position: Peer Reviewer

Academic degree: DSc, MSc

Professional title: Postdoc, Postdoctoral Fellow, Research Scientist, Senior Scientist

Reviewer's Country/Territory: Bangladesh

Author's Country/Territory: China

Manuscript submission date: 2023-05-12

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-13 14:50

Reviewer performed review: 2023-06-13 15:18

Review time: 1 Hour

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No novelty
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Scientific significance of the conclusion in this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<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
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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

SPECIFIC COMMENTS TO AUTHORS

Very important information about mesenchyme stem cell.

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Peer-review model: Single blind

Reviewer's code: 05573866

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: China

Manuscript submission date: 2023-05-12

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-26 03:00

Reviewer performed review: 2023-06-27 10:24

Review time: 1 Day and 7 Hours

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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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SPECIFIC COMMENTS TO AUTHORS

1. In the abstract section; The number of mice was written as “C57BL/6 mice were randomly divided into four groups (each group has 12 rats) including the sham, sham + MSC, LPS, and LPS + MSC groups, with 18 mice in each group”. So the number of mice is 12 in each group or 18 in each group?? 2. The abstract needs to be summarized and no need to add the results in detail (mean and standard deviation). 3. In materials and methods: “The three mice in each group were randomly taken and weighed, then, lung was baked in an oven at 80°C for 48 h”, the number of mice is three. Based on previous information about the number of mice in each group, the reviewer asks for the SPSS of the statistical results. 4. Provide the catalog number, source, and the name of the country for tumor necrosis factor (TNF)- α , IL-1 β , and IL-6 ELISA kits. 5. What was the rationale for using HUC-MSCs in specific? 6. The introduction and discussion need to be summarized. 7. The manuscript Needs extensive language editing.