

## PEER-REVIEW REPORT

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

**Manuscript NO:** 72997

**Title:** Physical Energy-Ultrasound shifts M1 macrophage differentiation towards M2 state

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05935626

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-11-05

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-11-08 08:10

**Reviewer performed review:** 2021-11-08 09:30

**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 Grade E: Do not publish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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input 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**

I would like to congratulate the authors for this article. It is interesting and can bring new perspective. I have some comments: Regarding the key word: stem cells, it would be more informative if the authors can discuss more about ultrasound physical energy or LIPUS (low-intensity pulsed ultrasound) use on stem cells and its effects from other previous studies. Figure legends: In Figure 1, please add (A) and (B) respectively in the sentence.

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**Title:** Physical Energy-Ultrasound shifts M1 macrophage differentiation towards M2 state

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05914645

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-11-05

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-11-12 06:46

**Reviewer performed review:** 2021-11-12 17:10

**Review time:** 10 Hours

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 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
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
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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

1. The title reflects the main subject/hypothesis of the letter? 2 The abstract summarizes and reflects the work described in the letter. 3 The key words reflect the focus of the letter. 4 The letter adequately describes to this letter to the editor? 5 The methods are briefly described in Figure 1 6 The results are briefly presented 7 The letter adequately discusses the the subject-matter 8 The figures well emphasis the point made 9 Biostatics used in the results that were presented 10 Units. Does the manuscript meet the requirements of use of SI units? 11 IMPORTANT

**AUTHORITATIVE REFERENCES CITED** 12 The manuscript is concise and well organized 13 No specific structure for letter to the editor amongst options 14 No ethical statement required

The authors use this letter to the editor to present preliminary results of energy from ultrasound and its effect on macrophage differentiation. The findings are consistent with previous results in literature (ref 11, 12)and calls for more research into this