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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 78294

Title: Mammalian Ste20-like kinase 1 inhibition as a cellular mediator of anoikis in mouse bone marrow mesenchymal stem cells

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03478635
Position: Editorial Board
Academic degree: PhD
Professional title: Senior Research Fellow
Reviewer's Country/Territory: Japan
Author's Country/Territory: China

Manuscript submission date: 2022-06-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-09-16 07:24

Reviewer performed review: 2022-09-28 04:53

Review time: 11 Days and 21 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This study demonstrates that Mst1 plays a role in anoikis. In "Cell adhesion" section, please describe the calculation method of the cell viability more in detail.

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Peer-review model: Single blind

Reviewer's code: 05816287

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2022-06-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-11-03 14:01

Reviewer performed review: 2022-11-04 12:24

Review time: 22 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The article arouses a lot of interest. First of all, congratulations to the authors of the study. It would be interesting to understand the timing of the analyzes and to make the cells expressing LC3 and p62 visible in immunofluorescence. Furthermore, it would be interesting to analyze the pathway of the genes involved in the induction of apoptosis and their related correlations.

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Peer-review model: Single blind

Reviewer's code: 05230040

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: China

Manuscript submission date: 2022-06-30

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-12-13 05:41

Reviewer performed review: 2022-12-14 07:43

Review time: 1 Day and 2 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

For rethinking the questions are below. 1. Does anchorage-independent cell culturing like in a low attachment plate or in polyhema, encourage condensation of BM-MSCs beside apoptosis during the experimental procedure? 2. Does anoikis may result in the death of all cells (un-inhibited Mst1) in a week as reflected in your results, due to the presence and improved ROS over time? 3. Does suspension cell culturing under high ROS presence under anoikis continue to grow or culture? The manuscript needs to add complete catalog numbers of all chemicals and kits that were used like autophagy inhibitor 3-MA?, array kits etc