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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 92114

Title: Gossypol acetic acid regulates leukemia stem cells by degrading LRPPRC via inhibiting IL-6/JAK1/STAT3 signaling or resulting mitochondrial dysfunction

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03764245
Position: Editorial Board
Academic degree: MD
Professional title: Professor
Reviewer's Country/Territory: India
Author's Country/Territory: China

Manuscript submission date: 2024-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2024-01-23 09:26

Reviewer performed review: 2024-01-23 09:34

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
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
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The current study provides new insight towards utilising Gossypol acetic acid (GAA) as a potential chemoagent specifically targeting LSCs by blocking bone marrow microenvironment and LRPPRC in AML cells. Thus targeting GAA as a novel chemoagent for the treatment of AML. However, large patient size cohort may prove to be beneficial for conforming the role as chemoagent. Few shrotcomings: 1. Flowchart diagram of methodology/study summary depicting processes and sample size- such studies using muiltiple methodology will help to help the author's understanding 2. Ethical consideration and statements are missing with reference number of same and place