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PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 89263

Title: Adenylate cyclase activates the cAMP signalling pathway to enhance platelet-rich plasma-treated Achilles tendon disease, a theoretical bioinformatics-based study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05377042

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Iran

Author's Country/Territory: China

Manuscript submission date: 2023-10-26

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-11-30 14:10

Reviewer performed review: 2023-12-08 15:30

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 Grade E: Do not publish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 type="checkbox"/> Grade B: Good <input checked="" 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 type="checkbox"/> Grade B: Good <input checked="" 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 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
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

- Title needs to be rewritten as it is not grammatically correct. It also should reflect the nature of work rather than a definitive statement while there is no experimental evidence. - PKA pathway is one of the downstream pathways of the cAMP and not the only one. Accordingly, it is not accurate to call the cAMP pathway "known as PKA system". - Authors need to analyse their data for potential upstream receptors that activate the ADCY1-9 and the cAMP pathway that leads to the activation of observed downstream effects (e.g., wound healing). They also need to check the expression of this (these) receptor(s) in the platelet (from public data of bulk or single cell RNA-seq). - It would be also very good to analyse their data to find the central nodes of secretion factors in platelets that is induced by the activation of these downstream pathways (e.g., wound healing, etc), and confirm the expression of these factors in the platelets. These factors are potentially the essential factors that mediate the effect of activated platelets. Identification of either the receptors or secreted factors offer a more tractable target for therapeutic purposes.