



## PEER-REVIEW REPORT

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

**Manuscript NO:** 90437

**Title:** Biological scaffold as potential platforms for stem cells: Current development and applications in wound healing

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

**Peer-review model:** Single blind

**Reviewer's code:** 06267808

**Position:** Peer Reviewer

**Academic degree:** Doctor

**Professional title:** Professor

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

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

**Manuscript submission date:** 2023-12-04

**Reviewer chosen by:** Meng-Liu Luo

**Reviewer accepted review:** 2024-01-22 19:28

**Reviewer performed review:** 2024-01-29 06:50

**Review time:** 6 Days and 11 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Novelty of this manuscript</b>	<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
<b>Creativity or innovation of this manuscript</b>	<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



<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<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

### SPECIFIC COMMENTS TO AUTHORS

The manuscript titled “Biological scaffold as potential platforms for stem cells: current development and applications in wound healing” offers a comprehensive overview of the current development and application of biological scaffolds for stem cells and their derivatives in wound healing. It highlights the effect of scaffolds on stem cell behavior and identifies key characteristics of scaffolds responsible for improved cell activities when used in combination with biomaterials. The topic is relevant and the manuscript is well structured and deserves consideration. However, there are some points that can be fixed and improve the quality of the manuscript. The main comments and recommendations are listed below. Recent studies show that preparation of bacterial cellulose scaffold is not so complex. However, bacterial cellulose has high biocompatibility and enhanced structural and mechanical properties and can be used for the engineering of hard and soft tissues and should be discussed better. Alginates and chitosan applications can be expanded. Regarding biopolymers application in wound healing, more attention should be given to recent studies of biopolymers modification with functional nanoparticles. Table 1. Probably, cellulose should be divided to bacterial



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cellulose and plant cellulose since their indexes in the table will be different. Tables and figures should be readable separately from the main text. Thus, it is recommended to define all abbreviation under the table 2. The text should be checked for typos and grammatical errors.