



JOURNAL EDITOR-IN-CHIEF'S REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 47254

Title: Effect of poly(3-hydroxyalkanoates) as natural polymers on mesenchymal stem cells

Journal Editor-in-Chief (Associate Editor): Shengwen Calvin Li

Country: United States

Editorial Director: Jin-Lei Wang

Date accepted review: 2019-06-01 03:51

Date reviewed: 2019-06-01 05:49

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	language polishing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Major revision

JOURNAL EDITOR-IN-CHIEF (ASSOCIATE EDITOR) COMMENTS TO AUTHORS

As pointed out by Reviewer 1 - 3. "Perhaps a discussion on how the authors think these problems/events can be solved or adapted to better achieve potential therapies would be welcome." In the revision, the authors argued "that PHA oligomers have antioxidant properties (p. 12, ref. 85). But I can't find a study about the role of these properties in biocompatibility or biological activity of PHAs. Maybe this is one of the main reasons for PHA biocompatibility, especially with stem cells. This is an unexplored problem. While oxidant stress plays a significant role in MSCs growth and differentiation." Too much text to get their point across to the reader. Ideally, they should use schematic diagrams to show such impacts with their own speculation. Another example, "The same is with the piezoelectric properties of PHAs, their antimicrobial activity, etc. And the main purpose of our review is to draw the attention of the scientific community to these unstudied scientific fields." Again, they should use schematic diagrams to show such impacts with their thoughts. As pointed



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out by Reviewer 1 - "2. "The discussion/conclusion is merely a summary of what was exposed extensively in the main text body." Ideally, the Conclusion is from the authors, not merely citing the literature, offering their insight into a new direction. The revised section was written like discussion, not the conclusion. Overall, it is of great interest, and their choice of the topic shows their taste of the field. It can become a most-frequently-cited review if they can come up with schematic diagrams revealing their vision toward future research. Specific comments: About 50 locations in the body of text should be revised to enhance the clarity and the logic flow as shown in tracking. (A separated email with the attachment was sent to the WJSC editorial office).