

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 47987

Title: Inducing human induced pluripotent stem cell differentiation through embryoid bodies: A practical and stable approach

Reviewer's code: 00037018

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's country: Italy

Author's country: Japan

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-07-19 05:49

Reviewer performed review: 2019-08-14 14:08

Review time: 26 Days and 8 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-223-8242
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

This review article summarizes studies on formation of embryoid bodies as a method to determine iPSC differentiation. While the topic is very interesting and important, this reviewer found the article hard to follow. This is not due to the Language, that is quite good, needing only minor polishing, but to the general organization of the text that is unclear. This manuscript could be considered for scientific publication after a major revision. This reviewer advice is: - to provide early in the manuscript a clear definition of embryoid body, both in the abstract and introduction. - at the end of the introduction, a short paragraph on the organization and summarized content of the following paragraphs of the review should be provided. - in the introduction, the authors state that "In this review, we conducted an analogical analysis of the current status of iPSC-derived differentiation, especially through EB formation, in an attempt to explore an effective system combining the key influencing factors throughout the differentiation period, and to shorten the culture cycles as far as possible". Analogical analysis in an inusual term in this context: what do the authors mean? Could the authors provide further details? - The sentence: "It is worth noting that an aggregate is defined as an EB if it is formed in the absence of inducing factors" does not fit well as the conclusive sentence of the introduction. It may be moved earlier in the introduction, when the definition of EB is provided. - In the section "2.1 Pluripotency maintenance, passaging, and aggregation" the authors use several acronyms without providing a definition: each acronym used should be clearly defined (e.g., ROCK, GSK, MEK, bFGF) throughout the text. - The sentence "they suggested that bFGF with three other inhibitors occasionally constitutes a culture environment that is more easily adaptable", implies that bFGF is an inhibitor of what? What are the other inhibitors tested in this study? These details should be added to the text. - The last paragraph of section 2.2 and Figure 1 seem to contain original data from the authors and contain no reference to previous publication and they should be removed, at this is a review article, unless the authors



**Baishideng
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Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-223-8242
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

can add a reference (even to a conference proceeding or similar content). - To this reviewer seems that section 4 would be more useful to the reader, to follow the review article flow, if moved earlier in the text perhaps after the introduction? - A conclusive sentence is missing in the text.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No