



**Baishideng  
Publishing  
Group**

7901 Stoneridge Drive, Suite 501,  
Pleasanton, CA 94588, USA  
**Telephone:** +1-925-223-8242  
**Fax:** +1-925-223-8243  
**E-mail:** bpgoffice@wjgnet.com  
**https://**www.wjgnet.com

## PEER-REVIEW REPORT

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

**Manuscript NO:** 42952

**Title:** Functional and Molecular Mechanism of Intracellular pH Regulation in Human Inducible Pluripotent Stem Cells (iPSCs)

**Reviewer's code:** 03370303

**Reviewer's country:** Japan

**Science editor:** Jin-Lei Wang

**Date sent for review:** 2018-10-17

**Date reviewed:** 2018-10-17

**Review time:** 12 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 type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input 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 type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

This article is very interesting, showing the intracellular pH of hiPSC is higher than that of differentiated cells. Authors also showed the suggested molecular mechanism of the higher pH<sub>i</sub> of undifferentiated hiPSC. Although the data shown here are limited to one

line of hiPSC (HPS0077), the finding is rational and impressive. I believe that this article will contribute to an advanced understanding of the mystery of pluripotent stem cells in general. Minor concerns: 1) The order of the appearance of Figures is rather complicated. For example, the description regarding Figure 7 appears before that of Figure 3. In addition, the description regarding Figure 1A and 1B appears in M&M (Measurements of intracellular pH) while that of Figure 1C appears in Results. Please rearrange the order of the appearance of the descriptions regarding these Figures. For example, Figure 7 can be mentioned in Discussion. Figure 1C can be included in M&M. Alternatively, Figure 1A and Figure 1B can be mentioned in Results, but not in M&M. 2) In page 21, line 2, the phrase "...may inhibited..." should be corrected as "...may inhibit..." or "...might inhibit...". 3) In page 23, line 2, the phrase "Regard to ..." should be corrected as "Regarding to ...". 4) In page 23, line 5, the phrase "...a decrease of pHi..." should be corrected as "...a decrease in pHi...". 5) In page 25, line 6, the phrase "... were substantially existed for..." should be corrected as "... were substantially existing for..." or "... substantially existed for...". 6) In page 27, line 1, please delete the word "also". 7) In page 27, line 2, the words "pluripotent markers" should be corrected as "expressions of pluripotent markers".

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

- The same title
- Duplicate publication
- Plagiarism
- No

### *BPG Search:*



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

**Manuscript NO:** 42952

**Title:** Functional and Molecular Mechanism of Intracellular pH Regulation in Human Inducible Pluripotent Stem Cells (iPSCs)

**Reviewer’s code:** 03478635

**Reviewer’s country:** Japan

**Science editor:** Jin-Lei Wang

**Date sent for review:** 2018-10-17

**Date reviewed:** 2018-10-18

**Review time:** 21 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 checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

**SPECIFIC COMMENTS TO AUTHORS**

This article describes about the mechanism of intracellular pH regulation in human iPSCs. The change of expression of pH<sub>i</sub> regulators in Figure 6 may be described more in detail. The symbols for error bars may be re-checked carefully.



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