

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 62844

Title: Calcium channels and their role in regenerative medicine

Reviewer's code: 00625668

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Germany

Author's Country/Territory: United States

Manuscript submission date: 2021-01-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-20 05:40

Reviewer performed review: 2021-02-02 06:35

Review time: 13 Days

Scientific quality	<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 Grade E: Do not publish
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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input 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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled "Calcium channels and their role in regenerative medicine" is a suitable and appropriate with the current time. This manuscript has potential to be accepted, however, there are few comments that need to be addressed before it can be finally accepted. 1. This review article don't touch bone cells and bone tissue engineering at all. It is appropriate that a section on Calcium channels in the context of bone cell regeneration and bio-mineralization aspects are added. 2. The English need certain minor editing in terms of comma, hyphen, space etc.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 62844

Title: Calcium channels and their role in regenerative medicine

Reviewer's code: 03472324

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-01-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-01-21 03:23

Reviewer performed review: 2021-02-18 03:11

Review time: 27 Days and 23 Hours

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
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 type="checkbox"/> Yes <input checked="" 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

In this manuscript, Ahamad and Singh reviewed the role of Calcium channels in stem cells, e.g., ES cells, IPS cells, and MSCs. They also discussed the role of MSCs in COVID-19. Overall, the topic is important and of interest to the field. However, there are several issues needed to be fixed in order to be published. (1) The authors did not have a comprehensive review on the Calcium signaling in stem cells. Many Ca^{2+} channels or signaling have been shown to regulate the stemness and differentiation of stem cells, e.g., TRP channels, TPC1/2-NAADP, cADPR-CD38, IP3R, etc. (2) Although it is interest to discuss the role of MSCs in COVID-19, no Ca^{2+} channels or signaling have been mentioned in this topic. (3) Many typos and grammar errors are spotted in the manuscript.