



## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 79222

**Title:** Current opinion in the regulation of small intestinal magnesium absorption

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

**Peer-review model:** Single blind

**Reviewer's code:** 05355546

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Chief Physician

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

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

**Manuscript submission date:** 2022-08-13

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-08-14 00:53

**Reviewer performed review:** 2022-08-25 23:20

**Review time:** 11 Days and 22 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



**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

statements

Conflicts-of-Interest: [ ] Yes [Y] No

### SPECIFIC COMMENTS TO AUTHORS

this article reviewed the current knowledge of the mechanisms and regulatory factors of small-intestinal  $Mg^{2+}$  absorption, the quality of manuscript organization and presentation is good, however, the paper still needs revision

1. In paragraph: Mechanism of small intestinal  $Mg^{2+}$  absorption, the authors mention that "One research group has proposed that transient receptor potential melastatin (TRPM)6 mRNA expression and transcellular  $Mg^{2+}$  absorption were not present in the small intestine . However, a study from the same group showed positive immunofluorescence staining of TRPM6 protein in the absorptive cells along the brush-border membrane of the villi in the duodenum", That seems contradictory , what is the possible explanation?
2. In paragraph: Transcellular  $Mg^{2+}$  absorption, the sentence "In addition, recent mass spectrometric peptide sequence analysis confirmed the expressions of TRPM6 and TRPM7 in the duodenum and jejunum", seems be superfluous.
3. In paragraph: Transcellular  $Mg^{2+}$  absorption, the sentence "A recent study reported the expression of a heterodimer TRPM6/7 channel in the plasma membrane of duodenal and jejunal epithelium ", should be moved before "However"
4. In paragraph: Paracellular  $Mg^{2+}$  absorption , In the fifth line, "Currently" should be canceled. In the tenth line, " However" is not appropriate here
5. In paragraph: Luminal acidity, In the tenth line, " However" is not appropriate here



## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 79222

**Title:** Current opinion in the regulation of small intestinal magnesium absorption

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

**Peer-review model:** Single blind

**Reviewer's code:** 03443948

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2022-08-13

**Reviewer chosen by:** Dong-Mei Wang

**Reviewer accepted review:** 2022-10-02 12:35

**Reviewer performed review:** 2022-10-12 14:18

**Review time:** 10 Days and 1 Hour

<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>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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



**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

statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

Mg<sup>2+</sup> has an important role in numerous biological functions, and Mg<sup>2+</sup> deficiency is associated with several diseases. This paper systematically and comprehensively reviewed the mechanisms and regulatory factors of small-intestinal Mg<sup>2+</sup> absorption, which provides important reference for the study to biological function of Mg<sup>2+</sup>. It is significant and can be published in this Journal.