

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 44625

Title: Roles of the $\text{Na}^+/\text{Ca}^{2+}$ exchanger 1 in digestive system physiology and pathophysiology

Reviewer's code: 02821831

Reviewer's country: Algeria

Science editor: Xue-Jiao Wang

Date sent for review: 2018-11-22

Date reviewed: 2018-11-23

Review time: 1 Day

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
<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 checked="" 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 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

In this review, the authors reports the role of NCX1 in digestive system physiology and pathophysiology to guide an eventual clinical treatments. The paper is informative and interesting. All the step of the paper are clearly written. The discussion are argue

and the conclusion indicate that the NCX1 channel protein regulates the Ca^{2+} signaling pathway via its forward/reverse modes in the digestive system and regulates the cell function, This point is interesting in particular in digestive pathophysiology . In introduction, the authors must add one or two sentences showing the role of immune system and Inflammation in digestive pathologies such as IBD or gastric ulcer (Soufli et al, 2016; Boutemine et al, 2018) In Discussion. the authors must add one sentence about the clinical relevance and indicate some possibilities for drug development for early intervention in inflammation-associated tumors

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 44625

Title: Roles of the Na⁺/Ca²⁺ exchanger 1 in digestive system physiology and pathophysiology

Reviewer's code: 00831621

Reviewer's country: United States

Science editor: Xue-Jiao Wang

Date sent for review: 2018-11-27

Date reviewed: 2018-12-05

Review time: 8 Days

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 checked="" 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 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 checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input 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

This review intends to explore the role and possible regulatory mechanisms of NCX1 in digestive physiology and pathophysiology to support the NCX1-based therapeutic potentials of digestive diseases. In this manuscript, authors summarized the NCX1

structure and its biochemical features in the gastrointestinal system, several regulatory signal pathways and mechanisms of action of NCX1 in GI. Although the manuscript is well written, some references cited in this review are old, such as reference 5,6,25 and 26, please make sure to update these references. Moreover, the texts on the figures are too small to read, in figure 2, TGF-beta was replaced with TGF- β in the figure Legend. Please keep a consistent description. In discussion, I suggest to summarize some possibilities for drug development and clinical treatments by targeting NCX1 or calcium channels.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
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- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 44625

Title: Roles of the Na⁺/Ca²⁺ exchanger 1 in digestive system physiology and pathophysiology

Reviewer's code: 00290396

Reviewer's country: Australia

Science editor: Xue-Jiao Wang

Date sent for review: 2018-11-27

Date reviewed: 2018-12-07

Review time: 10 Days

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 checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" 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 checked="" 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 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

Minor revision

INITIAL REVIEW OF THE MANUSCRIPT



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Google Search:

- ☐ The same title
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