

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Pathophysiology

Manuscript NO: 54064

Title: P2X7 receptor antagonist recovers ileum myenteric neurons after experimental ulcerative colitis

Reviewer's code: 03254146

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Brazil

Manuscript submission date: 2020-01-07

Reviewer chosen by: Jie Wang

Reviewer accepted review: 2020-01-14 08:03

Reviewer performed review: 2020-01-16 14:51

Review time: 2 Days and 6 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
<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

I'm pleased to review the paper entitled "P2X7 receptor antagonist recovers ileum myenteric neurons after experimental ulcerative colitis". Present article evaluated the effects of a P2X7 inhibitor, BBG in TNBS-induced ileal enteric neurons decreases and found that all type neurons and GFAP-ir glial cells were decreased in the TNBS group and recovered in the BBG group and that nNOS-ir neurons decreased in the TNBS group and recovered in the BBG group. They suggested that the P2X7 receptor is an important target in therapeutic strategies. Minor points 1) neuronal nitric oxide synthase is usually abbreviated as "nNOS". 2) Recently gastrointestinal epithelia responding physiological and pathological stimuli is also focused as ATP origin. Digestion 2020;101:6-11 3) Intestinal movement is regulated by a mechano-sensitive ion channel, TRPV2 and nNOS expressed in inhibitory motor neurons. Please make additional discussion. Journal of Neuroscience 8 December 2010, 30 (49) 16536-16544 4) ChAT positive neurons are divided into excitatory motor neuron and IPAN. Please add data if available, or give comments on these two types of neuron in discussion section. 5) They described "In ulcerative colitis, there are changes in enteric nervous system populations [6, 7, 8, 9, 10]." However The paper 9 is an only paper on human ulcerative colitis. 6) Reference 10, "myenteric"

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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



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

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Pathophysiology

Manuscript NO: 54064

Title: P2X7 receptor antagonist recovers ileum myenteric neurons after experimental ulcerative colitis

Reviewer's code: 00504435

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Brazil

Manuscript submission date: 2020-01-07

Reviewer chosen by: Jie Wang

Reviewer accepted review: 2020-01-15 11:09

Reviewer performed review: 2020-01-23 00:23

Review time: 7 Days and 13 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 type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input checked="" 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 paper performed immunohistochemistry for P2X7 receptor using ileal tissues of rats received TNBS with or without P2X7 receptor antagonist, BBG. It is interesting that the numbers of myenteric neurons and glial cells in the ileum were decreased in TNBN colitis. However, there are many issues to be addressed. 1. Only one experiment was performed in this study. It seems to be a preliminary examination. 2. Colonic tissues were not evaluated, so it is uncertain whether changes in DAI were due to inflammation in the colon. 3. The authors merely evaluated colocalization of P2X7 receptor and NOSn, ChAT, HuC/D or GFAP. It is necessary to demonstrate its significance in TNBS colitis.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastrointestinal Pathophysiology

Manuscript NO: 54064

Title: P2X7 receptor antagonist recovers ileum myenteric neurons after experimental ulcerative colitis

Reviewer's code: 03254146

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Brazil

Manuscript submission date: 2020-01-07

Reviewer chosen by: Yu-Qiao Wang

Reviewer accepted review: 2020-03-26 03:51

Reviewer performed review: 2020-03-26 09:23

Review time: 5 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 checked="" 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 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



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SPECIFIC COMMENTS TO AUTHORS

I'm pleased to re-review the paper entitled "P2X7 receptor antagonist recovers ileum myenteric neurons after experimental ulcerative colitis". Minor points 1) Legend for figure 2 includes "However", which is inappropriate for figure legend. 2) I can not understand the last sentence, "Also, has been described that the expansion of the inflammatory process from the distal neck to the distal ileum". What is noun and what is the "neck" ? 3) "NOSn" is still remaining in Figure 7.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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