

## PEER-REVIEW REPORT

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

**Manuscript NO:** 41677

**Title:** Different distributions of Cajal interstitial cells and platelet-derived growth factor receptor- $\alpha$  positive cells in colonic smooth muscle cell - Cajal interstitial cell - platelet-derived growth factor receptor- $\alpha$  syncytium in mouse

**Reviewer's code:** 01436006

**Reviewer's country:** China

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-08-24

**Date reviewed:** 2018-08-28

**Review time:** 4 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 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 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

The authors have evaluated the distribution and function of the two interstitial cells including Cajal interstitial cells (ICCs) and platelet-derived growth factor receptor- $\alpha$



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positive (PDGFR+) cells in proximal and distal colon. They found that the ICCs mainly distribute in proximal colon and more PDGFR $\alpha$ +cells are in distal colon, which generates a pressure gradient at both ends of colon to propel the feces to the anus. The research is interesting, and the novelty is good. Minor comments: 1. The discussion paragraphs should be written more clearly 2. There are some grammar mistakes in the manuscript. The authors should check carefully

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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

##### ***BPG Search:***

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

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**Title:** Different distributions of Cajal interstitial cells and platelet-derived growth factor receptor- $\alpha$  positive cells in colonic smooth muscle cell - Cajal interstitial cell - platelet-derived growth factor receptor- $\alpha$  syncytium in mouse

**Reviewer's code:** 02441009

**Reviewer's country:** Germany

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-08-24

**Date reviewed:** 2018-09-14

**Review time:** 21 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 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
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publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" 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

The authors present an interesting study on the different distribution of ICCs and PDGFR $\alpha$  cells in colonic SIP syncytium in mouse. In this animal experiment, the



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authors provide some evidence of this different distribution using physiological methods and PCR. There are some issues which need to be addressed. First, the authors should state much clearer what the clinical problem is elucidated in this study. Second, the authors need to provide also histological studies, which display the differences found in the physiological studies also by morphology.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

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- ☐ No