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## PEER-REVIEW REPORT

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

**Manuscript NO:** 52645

**Title:** The role of Tenascin-X in regulating the TGF- $\beta$ /Smad signaling pathway in the pathogenesis of slow transit constipation

**Reviewer's code:** 00182114

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Professor, Surgeon

**Reviewer's country:** Japan

**Author's country:** China

**Reviewer chosen by:** Jie Wang

**Reviewer accepted review:** 2019-11-24 23:51

**Reviewer performed review:** 2019-11-26 09:09

**Review time:** 1 Day and 9 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 type="checkbox"/> Grade B: Minor language      | (High priority)                         | <input 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 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 type="checkbox"/> General      |
|   |   |   | <input type="checkbox"/> No expertise |
|   |   |   | Conflicts-of-Interest:                |
|   |   |   | <input type="checkbox"/> Yes          |
|   |   |   | <input type="checkbox"/> No           |

## SPECIFIC COMMENTS TO AUTHORS

Slow-transit constipation (STC) causes infrequent bowel movements (typically less than once per week) and is most common in young women . Often, patients do not feel the urge to defecate and may complain of associated bloating and abdominal discomfort. As the name suggests, colonic transit time is prolonged in these patients, and frequency of HAPCs is reduced . STC is believed to be a neuromuscular disorder of the colon. Studies have shown decreased numbers of interstitial cells of Cajal (ICC) and alterations in the number of myenteric plexus neurons expressing the excitatory neurotransmitter substance P in the gut wall of patients with this disorder. The recent London classification of gastrointestinal neuromuscular diseases also lists hypoganglionosis, inflammatory neuropathy and degenerative leiomyopathy as other causes of STC . Author concluded that TNX may activate the TGF- $\beta$ /Smad signaling pathway by upregulating the Smad2/3 signaling protein and thereby induce slight or complete epithelial stromal cell transformation, leading to an abnormal distribution and dysfunction of ICC in the diseased colon, which promotes the occurrence and development of STC. This paper is very valuable for the etiology of STC,

## **INITIAL REVIEW OF THE MANUSCRIPT**

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

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

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

- ☐ The same title
- ☐ Duplicate publication



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[ ] Plagiarism

[ Y ] No