



## PEER-REVIEW REPORT

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

**Manuscript NO:** 82252

**Title:** Key elements determining the intestinal region-specific environment of enteric neurons in type 1 diabetes

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

**Peer-review model:** Single blind

**Reviewer's code:** 03544596

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Academic Editor, Associate Professor

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

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

**Manuscript submission date:** 2022-12-15

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-17 17:14

**Reviewer performed review:** 2022-12-19 18:23

**Review time:** 2 Days and 1 Hour

<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 Grade E: Do not publish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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No



**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

<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

### **SPECIFIC COMMENTS TO AUTHORS**

Dear Editor, I should first thank for inviting me as potential reviewer to read and comment on paper entitled "Intestinal region-specific environment of the enteric neurons in type 1 diabetes". In the current study, the authors to highlight the main tissue components and molecular factors, such as enteric glia cells, interstitial cells of Cajal, gut vasculature, intestinal epithelium, gut microbiota, immune cells, enteroendocrine cells, pro-oxidants, antioxidant molecules and extracellular matrix, which create and determine a gut region-dependent neuronal environment in diabetes. The manuscript interprets the findings adequately and appropriately, highlighting the key points clearly. Also, the manuscript appropriately cites the latest, important and authoritative references. I think that it will contribute to the literature.



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**Reviewer’s code:** 03258746

**Position:** Editorial Board

**Academic degree:** MSc, PhD

**Professional title:** Academic Research, Associate Professor, Lecturer, Research Scientist

**Reviewer’s Country/Territory:** Brazil

**Author’s Country/Territory:** Hungary

**Manuscript submission date:** 2022-12-15

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

**Reviewer accepted review:** 2023-03-01 11:29

**Reviewer performed review:** 2023-03-10 23:11

**Review time:** 9 Days and 11 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>Novelty of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
<b>Creativity or innovation of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**SPECIFIC COMMENTS TO AUTHORS**

The goal of this review is to study enteric glia cells, interstitial cells of Cajal, gut vasculature, intestinal epithelium, gut microbiota, immune cells, enteroendocrine cells, pro-oxidants, antioxidant molecules, extracellular matrix and enteric nervous system in diabetes. The review is very interesting but I have some notes. #1 Regarding the Title does not reflect the topics of the minireview. The title is written as "Intestinal region-specific environment of the enteric neurons in type 1 diabetes". I would suggest that the authors think a title not only enteric neuron, but a broader title. #2 I would suggest that the topic on Intestinal Epithelium be described in more details about the effects of diabetes. #3 I suggest to the authors a topic on the effect of diabetes on the Enteric Nervous System. #4 I suggest in Figure 1 to use arrows to demonstrate the structures. #5 Figure 2 would need a caption with more details.



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**Reviewer's code:** 03728463

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2022-12-15

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

**Reviewer accepted review:** 2023-03-04 17:12

**Reviewer performed review:** 2023-03-13 15:21

**Review time:** 8 Days and 22 Hours

<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>Novelty of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
<b>Creativity or innovation of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



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<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

This mini-review deals with the major tissue components and molecular factors which create and determine a gut region-dependent neuronal environment in diabetes, with particular reference to enteric glial cells, intestinal vasculature, pro-oxidant/antioxidant balance and extracellular matrix molecules. The subject is briefly described but, at the same time, updated and well documented also by the Authors' findings that reflect their field of expertise. The manuscript is interesting and clearly explained. I only have the following minor points to suggest: - The graphics of figure 2 could be improved - Please check the text carefully as there are a couple of grammatical and/or typo errors - Please check the References, especially the nr. 76