



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

Scientific quality	<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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	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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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

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

Scientific quality	<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
Novelty of this manuscript	<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
Creativity or innovation of this manuscript	<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



Scientific significance of the conclusion in this manuscript	<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
Language quality	<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
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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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Peer-review model: Single blind

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

Scientific quality	<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
Novelty of this manuscript	<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
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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	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