

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 28433

Title: Transient receptor potential vanilloid 1 (TRPV1)-immunoreactive signals in murine enteric glial cells

Reviewer's code: 03529851

Reviewer's country: United States

Science editor: Yuan Qi

Date sent for review: 2016-06-30 17:14

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The manuscript by Yamamoto M et al. is well written, and shows immunoreactivity for TRPV1 labelling in EGC. I have the following questions that would be important to clarify. The TRPV1 KO mouse is a functional knock out, and the protein may still express, we have seen some of immunoreactivity on the KO animals, as well as others. Of course the antibodies make the most important point here. The authors nicely provide the information on the IgG sources, and the peptides targeted for immuno-detection. It would be important to indicate whether the peptide for the immuno-labeling is the same as the deletion region of the KO TRPV1? To bring more value to the paper, it would be nice if authors could show some functional responses of TRPV1 from the large or small intestine, or the cultured cells, which the authors used in their study. Even Ca²⁺ responses elicited by capsaicin application to the WT but not KO mice would suffice.

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ESPS manuscript NO: 28433

Title: Transient receptor potential vanilloid 1 (TRPV1)-immunoreactive signals in murine enteric glial cells

Reviewer's code: 03215423

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The authors are to be commended for the work in the manuscript entitled "Transient receptor potential vanilloid 1 (TRPV1)-immunoreactive signals in murine enteric glial cells". This is an interesting paper highlighting the expression profiles of TRPV1 murine enteric glial cells. Despite these interesting findings there is significant work that needs to be performed before I can warrant it acceptable for publication. Major critiques: 1) Do the authors have any functional TRPV1 data correlating the expression studies...calcium imaging or patchclamp data to capsaicin to further verify TRPV1 expression in EGCs. 2) Please provide negative controls for all staining experiments. 3) Do the authors have any functional data detailing the purpose of TRPV1 in the LI and SI EGCs? What physiological GI processes are they contributing to? 4)The authors demonstrate a difference in GFAP-IR at different PDs... do the authors see changes in TRPV1 expression the same time points? 5) Functional data (calcium imaging or patch clamp data) in freshly isolated cells from the LI or SI would greatly enhance the conclusions of the current manuscript and validate their functional expression patterns. Minor critiques: 1) The manuscript should be proof read for grammatical



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errors. 2) Consistency in figure labeling - merge or Merge, etc. 3) Is Figure 2 necessary... could the enlarged view be incorporated in to Figure 1.