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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 8931

Title: Enteric glial cells and their role in the intestinal epithelial barrier

Reviewer code: 02458583

Science editor: Gou, Su-Xin

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" 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"/> Existed	<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"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

Interesting study; however, the following points should be considered before accepting this paper:

1- The anatomy of enteric glia should be well described as they are not just on mucosal glial plexus. We have them on ENS and submucosal plexus which are also involved in barrier function.

2- Original studies in the field should be well covered. My brief search showed that the following articles were not cited:

1: Cheadle GA, Costantini TW, Lopez N, Bansal V, Eliceiri BP, Coimbra R. Enteric glia cells attenuate cytomix-induced intestinal epithelial barrier breakdown. *PLoS One*. 2013 Jul 1;8(7):e69042. doi: 10.1371/journal.pone.0069042.

2: Xiao WD, Chen W, Sun LH, Wang WS, Zhou SW, Yang H. The protective effect of enteric glial cells on intestinal epithelial barrier function is enhanced by inhibiting inducible nitric oxide synthase activity under lipopolysaccharide stimulation. *Mol Cell Neurosci*. 2011 Feb;46(2):527-34.

3: Costantini TW, Krzyzaniak M, Cheadle GA, Putnam JG, Hageny AM, Lopez N, Eliceiri BP, Bansal V, Coimbra R. Targeting α -7 nicotinic acetylcholine receptor in the enteric nervous system: a cholinergic agonist prevents gut barrier failure after severe burn injury. *Am J Pathol*. 2012 Aug;181(2):478-86.

4: Costantini TW, Bansal V, Krzyzaniak M, Putnam JG, Peterson CY, Loomis WH, Wolf P, Baird A, Eliceiri BP, Coimbra R. Vagal nerve stimulation protects against burn-induced intestinal injury through activation of enteric glia cells. *Am J Physiol Gastrointest Liver Physiol*. 2010 Dec;299(6):G1308-18.

3- Enteric glia and colitis should be discussed more.

4- A diagram showing enteric glia and their interaction with intestinal barrier/epithelium would add to this paper.