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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 28907

Title: Protective Effect of Toll-like receptor 3 agonist Poly I:C on Mucosal Injury and Epithelial Barrier Disruption in mouse models of DSS-induced Acute Colitis

Reviewer's code: 00004011

Reviewer's country: Greece

Science editor: Ze-Mao Gong

Date sent for review: 2016-08-19 17:11

Date reviewed: 2016-08-26 18:11

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> [Y] Accept
<input type="checkbox"/> [Y] Grade B: Very good	<input type="checkbox"/> [Y] Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> [] High priority for publication
<input 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 type="checkbox"/> [Y] No	<input type="checkbox"/> [] Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> [Y] No	

COMMENTS TO AUTHORS

It is an interesting manuscript. A number of typographic errors through the manuscript should be corrected



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Title: Protective Effect of Toll-like receptor 3 agonist Poly I:C on Mucosal Injury and Epithelial Barrier Disruption in mouse models of DSS-induced Acute Colitis

Reviewer's code: 02529812

Reviewer's country: Norway

Science editor: Ze-Mao Gong

Date sent for review: 2016-08-19 17:11

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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 checked="" 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"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
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	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Zhao et al here report that administration of the Toll-like receptor agonist Poly I:C protects against inflammation in the mouse DSS colitis model, and that this seems to act through better preserved tight junctions. The effect of Poly I:C on DSS colitis has been described previously, in depth by Vijay-Kumar and coworkers (Inflammatory Bowel Diseases 2007), and the experimental setup in the present paper is virtually identical to this. The mechanistic aspects with respect to TJ protection have probably not been examined in this model before, however similar effects of TLR3 stimulation have been observed in other model systems (i.e. Moyano-Porcile Pharmacol Res 2015). In general, the present work is well done and the paper describes results of interest for the IBD research community working with animal models of gut inflammation. My specific comments are these: ? The main concern is that novelty is disputable, most of the observations here can be derived from previous papers. However, as mentioned above, the DSS model is widely used and the results can nevertheless be of interest. ? The Methods section (under Electron microscopy) seems to describe tissue prepared for both TEM and SEM; I am unable to find results from TEM in the paper. ? Figure 1 panels A and B



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have timepoints also at 2 days, while the legend describes assessment 3-8 days. Please clarify. ? Were the Zo-1 bands in Figure 4D really measured with densitometry? These look technically dubious, to say the least. I:C is not written correctly in this panel (capitalize C). ? The Discussion section is somewhat unorganized; I would prefer that the authors move general information to the Introduction section and use established knowledge only in the context of discussing their own results. ? Please let the manuscript undergo a thorough language revision.