

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 20727

Title: Tight junctions in inflammatory bowel diseases and inflammatory bowel disease associated colorectal cancer

Reviewer's code: 00038340

Reviewer's country: United States

Science editor: Jing Yu

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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 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"/> 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"/> No	

COMMENTS TO AUTHORS

Major "Tight Junctions" should be the first section in the review, followed by "Epithelial Barrier Function in IBD" The sentence "Water, small ions and low molecular weight molecule typically use paracellular routes..." is not an accurate statement and should be modified. Ion channels and transporters play a very important role in ion and nutrient transport. Also there should be a mention of the difference between tight and leaky epithelia. The sentence: "The majority of tight junctions are cation selective" is another inaccurate generalization. (Check: Tight junction, selective permeability, and related diseases, Susanne M. Krug, Jrg D. Schulzke, Michael Fromm and a review by J R Turner: The role of Molecular Remodeling in Differential Regulation of Tight junction Permeability). Please modify "Chicken or Egg?" section should have subheadings. It is very difficult to read and follow. The sections: "Tight Junctions" and "Therapeutic Opportunities" could also greatly benefit from subheadings. Therapeutic Opportunities: The paragraph: "Short chain fatty acids..." , it is not clear to the reader how this is therapeutic. Please add a sentence about the expected source of butyrate or SCFA in the diet and a note about the effect of claudin 2



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downregulation. Minor Novel “therapies” that alter The world “therapies” should be replace by “compounds”