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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 30657

Title: Hydrogen-rich water protects against inflammatory bowel disease in mice by inhibiting endoplasmic reticulum stress and promoting heme oxygenase-1

Reviewer's code: 03258845

Reviewer's country: Chile

Science editor: Jing Yu

Date sent for review: 2016-10-13 08:39

Date reviewed: 2016-11-08 22:42

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

Congratulations is a very well designed work with very interesting results I just wanted to ask: Was there any examination or histological study of the puncture site? It would have been interesting to know if there is any reaction in that place.



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Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 30657

Title: Hydrogen-rich water protects against inflammatory bowel disease in mice by inhibiting endoplasmic reticulum stress and promoting heme oxygenase-1

Reviewer's code: 00073640

Reviewer's country: Slovenia

Science editor: Jing Yu

Date sent for review: 2016-10-13 08:39

Date reviewed: 2016-11-17 17:59

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

The main focus of this study is to investigate the possible beneficial effect of hydrogen-rich water on inflammatory bowel disease on DSS mice model. The subject of the review is very interesting and topical. The manuscript is very good structured. The experiments were well designed and the methods used are appropriate. However, there are some details that need to be improved and corrected before publication. When using animals in research it is important to be aware that there are many factors that can affect the results. In light of responsible conduct of animal experimentation and validity and reproducibility of the results there is demand to include all necessary data into manuscript-more information can be found on the website - link <http://iclas.org/committees/ethics-and-animal-welfare-committee> <http://iclas.org/wp-content/uploads/2012/07/ICLAS-Ethical-Guidelines-Editor.pdf> It can be seen that authors already include most of the necessary information but they forgot to mention a few important data such as: - How many mice did you use - the number, - Diet (code of the diet and manufacturer) - Exact name of the strain of mice - C57BL/6 is not enough (see Nomenclature



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<http://www.wjgnet.com>

<http://www.informatics.jax.org/mgihome/nomen/strains.shtml>) When using DSS solution it is important that it is prepared on daily basis – however, authors did not provide information whether they prepared solutions daily or once a week. Please include this data. Section 2.4. Euthanasia Authors wrote - ?blood samples were collected from the eyeballs? - this can not be true – it could be from periorbital plexus – please correct Section 2.5. – Authors provide three different scorings, which is difficult to follow. I would suggest presenting scoring system in the table. Please explain how you calculate % of shortening of colon length – what did you use as a base line? Section 2.7. – measurement of hepatic oxidative stress – Hepatic?? Please correct. Section 2.9. – in animal experimentation usually standard error of mean (SEM) instead of standard deviation (SD) is used (due to small number of animal per group–below 30). It is known that different parts of colon (distal, middle, proximal) can be differently affected by DSS. Thus, it is very important that the sampling is done correctly. Please include in the manuscript how did you perform the sampling for the histology, oxidative stress and western blot. There are some typing error that need to be corrected.