

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 17058

Title: Toll like receptor-4 activation upregulates cystathionine β synthetase expression through an NF- κ B-dependent mechanism in a rat model of chronic visceral pain

Reviewer's code: 02531219

Reviewer's country: China

Science editor: Ya-Juan Ma

Date sent for review: 2015-02-10 11:35

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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

This manuscript tried to explain the development of CBS in IBS from the aspect of TLR4/NF- κ B pathway, which is quite a novel angle to explore IBS. However, I'm very sorry to say it's not a well-written article and the authors failed to make their point very clear. The work is valuable, but I would like to suggest the authors to improve the article from the following aspects: 1. There are lots of grammar errors to correct; 2. The current introduction part is a little bit too long and not focused enough; 3. The authors missed some points when presenting the experiment design, such as the number of animal and basic information of the chemicals and instruments used in the study; 4. The figures are clear enough to tell the results if only the authors could explain the comparison relationships beneath the figures, instead of telling all of the results again in the context. 5. Cells used in PCT and cell culture were not confirmed by any markers, which would influence the accuracy of further measure as there are some other cells in the suspension of DRGs after digestion. Therefore, more information about cell marker should be present; 6. Pathological pictures should be provided to exclude inflammatory alterations.

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Title: Toll like receptor-4 activation upregulates cystathionine β synthetase expression through an NF- κ B-dependent mechanism in a rat model of chronic visceral pain

Reviewer's code: 02531171

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Science editor: Ya-Juan Ma

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
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<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 manuscript by Yuan and colleagues entitled 'Toll like receptor-4 activation upregulates cystathionine β synthetase expression through an NF- κ B-dependent mechanism in a rat model of chronic visceral pain' is well written and presents an array of interesting data on the role of neuronal TLR4 in the development of acetic acid-induced visceral pain in an NF κ B dependent manner. The English is of a good standard but would benefit from some polishing. The paper is technically sound and the findings are interesting. A number of issues should be addressed as indicated below: Check for a number of typos through out the manuscript - would benefit from review by a native English speaker. Restrict description of methods to the methods section (remove from results). The results should be described more consisely. Similarly, the figure legends could be more concise - no need to repeat information in the figures again in the text. The findings on hydrogen sulfide (H₂S) signaling and its endogenous synthesizing enzyme cystathionine- β -synthetase (CBS) in an animal model of chronic visceral hypersensitivity may not translate to the clinical scenario of IBS and shouldn't be overemphasied. The authors should speculate as to the mechanisms by which acetic



BAISHIDENG PUBLISHING GROUP INC

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com

<http://www.wjgnet.com>

neonatal acid treatment to increase TLR4 expression in DRGs. What is stimulating this PAMP in these neurons.