

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**ESPS manuscript NO:** 20517

**Title:** Neural mechanism of electroacupuncture at RN12 and BL21 based on paraventricular hypothalamic nucleus-dorsal vagal complex-vagus nerve-stomach

**Reviewer's code:** 00069567

**Reviewer's country:** China

**Science editor:** Jing Yu

**Date sent for review:** 2015-06-11 10:24

**Date reviewed:** 2015-07-01 17:44

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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 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
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input 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

The subject forward a hypothesis called "targeted convergence":the acupuncture signal of gastric Shu and Mu points gather not only in the spinal cord, but also have a phenomenon of targeted convergence in the brain stem and hypothalamus in higher central nervous system, achieving integration effect through the neural microcircuitry. The experiment was to verified the hypothesis,it was very significantly.And this subject has a very good foundation.The paper has some problems.For example:1.Some English abbreviations for the first time there is no full name. 2.The language needs polishing. 3.With the approval number of the ethics committee. 4.Experiment design separate writing, more easy to understand. 5. Pay attention to some of the details of the format.

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**Name of journal:** World Journal of Gastroenterology

**ESPS manuscript NO:** 20517

**Title:** Neural mechanism of electroacupuncture at RN12 and BL21 based on paraventricular hypothalamic nucleus-dorsal vagal complex-vagus nerve-stomach

**Reviewer's code:** 02488986

**Reviewer's country:** Taiwan

**Science editor:** Jing Yu

**Date sent for review:** 2015-06-11 10:24

**Date reviewed:** 2015-07-02 15:05

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

1. There are several space errors in the manuscript, please go through it carefully. 2. In abstract section, too many introduction and rare result sentences, please revise it. 3. The authors should mention about RN12 and BL21 for first use in the abstract and introduction. 4. In method section, the authors showed that EA at RN12 plus BL21 group. The authors should write carefully since RN12 is located on abdominal and BL21 is on back site. 5. "the electrode was connected with a electrically isolated digitizing amplifier into OmniPlex" should be .....an electrically ..... 6. There are many grammar errors in full manuscript: "To examine the expression levels of c-fos, motilin and gastrin in hypothalamus." The authors should edit it carefully. 7. The resolution in the figures are not so good, please re-edit them.

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**ESPS manuscript NO:** 20517

**Title:** Neural mechanism of electroacupuncture at RN12 and BL21 based on paraventricular hypothalamic nucleus-dorsal vagal complex-vagus nerve-stomach

**Reviewer's code:** 03434126

**Reviewer's country:** Brazil

**Science editor:** Jing Yu

**Date sent for review:** 2015-06-11 10:24

**Date reviewed:** 2015-06-30 07:59

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 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"/> 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

The subject is stimulant and innovative. All attempts to shed a light in the matter of specificity of acupuncture stimuli is welcome but I think the article needs some work to be published. Some general aspects: Where are the non-points? I suggest a fine description or a figure showing them. Why use RN12 and not CV12, proposed by WHO. Why not describe the peripheral nerves stimulated? You could comment about the segmentar innervation of Shu-Mu points. You could rise a hypothesis why the used nerves are more specific than forepaws. It was shown by Longhurst that PC6 could provoke similar effect in DVC. Why did you use 100 Hz? I suggest a figure showing where the stimuli were done - acupuncture points and non-points, and a graph with the hypothesis how could the stimulus in CV12 and BL21 reach the hypothalamus and the nucleus and how does it go to the stomach. You could state the clinical importance of these points regulate gastric motility. There is no comment about Some specific aspects: Abstract In my concern, you should not put reference in the abstract. The abbreviation may be put in the abstract as well, but they must be put in the main text as they appear. You don't state in the abstract the work is done with rats. Introduction You



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should describe DVC and PVN as it is the first time they appear in the text. Also in line 84 and 8 with MTL-R and GAS-R Methods How many rats? Page 127. Reference for Paxinos and Watson P135. Reference. This is a general journal and readers dont know about it. Results You named the experiments with letters. Use them here. It is easy to understand. You started a little discussion in results. P205, P215, P233, P256. It should be better these comments were better explained in the Discussion. You should state better the difference between needle only CV12 or BL21 and both.