

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 13067

Title: Hydrogen sulfide-induced enhancement of gastric fundus smooth muscle tone mediated by Voltage-dependent potassium and calcium channels in mice

Reviewer code: 00058104

Science editor: Ya-Juan Ma

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" 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"/> Existing	<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"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

The authors of the manuscript entitled "Hydrogen sulfide-induced enhancement of gastric fundus smooth muscle tone mediated by Voltage-dependent potassium and calcium channels in mice" present a very nice work of basic science physiology on gastric smooth muscles. There are a few minor comments that I would like to share with the authors. Please, find below.

MINOR COMMENTS

Abstract The 3 first sentences of abstract results describe methods and should be described under that section. Actually, part of these 3 sentences is already mentioned in methods section. Please, reconsider. **AOAA:** please, explain abbreviation when used for 1st time in the document. The use of AOAA, NOS, NaSH, 4-AP, and nicardipine should be mentioned in methods section. **Introduction** Second paragraph, line 6: After the reference number 10 there is a period; please, reconsider. Paragraph 3, 1st and 2nd sentence: Please, add references. Paragraph 3, last sentence: "The present study aims to study the effect ..." . Please, reconsider the use of an alternative verb, such as "to investigate", "to assess", "to evaluate". **Materials and Methods Section "Animals":** Please, explain abbreviation "IRC". Section "Animals: The last sentence is already mentioned at Ethics section. Section "Tissue preparation...": Please, describe more objectively the time between mice sacrifice and stomach removal. Section "Preparation of cultured...": Please, clarify if Krebs solution was used in any part of this methodology. Section "Drugs", Last sentence: please, reconsider language and explain "DMSO" abbreviation. **Results** Is the sentence "Effects of exogenous H₂S and endogenous



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H₂SO₄ gastric fundus smooth muscle contraction” a sub-section title? Does the following text belong to results section or should better fit discussion section? “As CBS and CSE are ... at lower concentrations” The unit that is used to describe isometric tension measurements is mg, which is a unit for mass. It is well understood that it is spread in the bibliography to interchange tension unit [i.e. force unit that is N (Kg m/sec²)] with the corresponding translated mass unit (Kg, g or mg); however it is not the optimal interpretation. Mass unit in this case may easily translated to force unit when is multiplied by gravity. Alternatively, one may use the expression “mg of force”, “g of force”, “Kg of force” . ** The same comment applies to the methods section, too. The results section should present only the results. The comments on and the interpretation of the results should be presented in the discussion section.