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ESPS Peer-review Report

Name of Journal: World Journal of Biological Chemistry

ESPS Manuscript NO: 5337

Title: The Roles and Mechanisms of Cyclic-ADP Ribose (cADPR)/CD38/Ca²⁺ Signaling Pathway

Reviewer code: 00981247

Science editor: Ma, Ya-Juan

Date sent for review: 2013-09-02 15:33

Date reviewed: 2013-10-12 02:33

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<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	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

In this review, Wei and Yue summarized our current knowledge regarding the roles and mechanisms of cyclic-ADP ribose/CD38/Ca²⁺ signaling pathway. Overall, this is a very well-written review. I have some minor suggestions for this review. 1, p3, spell out IP3 the very first time it appears in the text. 2, p3, define and spell out CICR the first time it appears in the text. 3, p3, define and spell out RyRs. 4, p4, define and spell out TRPM2.



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ESPS Manuscript NO: 5337

Title: The Roles and Mechanisms of Cyclic-ADP Ribose (cADPR)/CD38/Ca²⁺ Signaling Pathway

Reviewer code: 00203459

Science editor: Ma, Ya-Juan

Date sent for review: 2013-09-19 15:33

Date reviewed: 2013-10-24 02:33

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<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	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The manuscript by Wenjie Wei and Jianbo Yue "The Roles and Mechanisms of Cyclic-ADP Ribose (cADPR)/CD38/Ca²⁺ Signaling Pathway" provides a comprehensive and well-balanced view on the generation and physiological function of cADPR. However, the manuscript needs to be improved for grammar/style. It contains a large body of grammatical and typographical errors, a few of them are listed here. Page 3, "that homogenates desensitized to IP₃ were still..." Please re-phrase, as homogenates cannot be desensitized. "which is a spliced variant", change to: which is a splice variant "preincubating with an cADPR antagonist" change to: preincubating with the cADPR antagonist Page 4, After the sentence „Nevertheless, further researches are needed to elucidate the direct receptor of cADPR“ it would be nice when the reviewers would suggest own experiments or point to future directions to solve open questions/issues. "was actually ubiquitously existed in a wide variety", change to: ubiquitously exists in a wide variety..."Aplsia", do you mean Aplysia? change "showes" to shows. Page 5, "and converted most of NAD to ADP-ribose, thus possesses both cyclase and NADase activities" I do not understand this sentence, please re-phrase. "sties" change to sites. "in the form of homodimer", change to in the form of a homodimer I do not understand the sentence "as the active site, with a TLEDTL conserved segment", do you mean that the active site contains the amino acid sequence TLEDTL? "are protonated thereby facilitating" please insert a comma before the word thereby "produced cADPR need to be transported" change to needs to be transported. Page 6, "this directly transport" please change to this direct transport "is a critical for the internalization", do you mean a critical event for....? "43 hemichannels is opened" please change to 43 hemichannels are opened "coworkers had showed that treatment" change to coworkers had shown that treatment



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“Although the exactly location of “ change to Although the exact location of “that containing multiple serine “ change to that contains multiple serine

There are many more typos and errors throughout the entire manuscript, this is only a small selection. Please make sure that a specialized (preferentially a native speaking) person checks the entire manuscript.