



PEER-REVIEW REPORT

Name of journal: World Journal of Translational Medicine

Manuscript NO: 40391

Title: More than boric acid: The increasing relevance of BORON in medicine.

Reviewer's code: 02446337

Reviewer's country: United States

Science editor: Li-Jun Cui

Date sent for review: 2018-06-21

Date reviewed: 2018-06-27

Review time: 6 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Please provide a figure summarizing the effects of BORON. Several other papers examining Borons should be discussed.

INITIAL REVIEW OF THE MANUSCRIPT



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PEER-REVIEW REPORT

Name of journal: World Journal of Translational Medicine

Manuscript NO: 40391

Title: More than boric acid: The increasing relevance of BORON in medicine.

Reviewer’s code: 02955164

Reviewer’s country: Spain

Science editor: Li-Jun Cui

Date sent for review: 2018-06-21

Date reviewed: 2018-06-29

Review time: 8 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer’s expertise on the
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input checked="" type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript, Farfán-García et al. discuss on the potential applications and interest in the medical field of boron-containing compounds, different from the well-known boric acid. This is a short paper with relatively little information. Essentially, it reads like a statement where authors claim that boron is (and should be) receiving more



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attention due to latest advances. The manuscript is generally well-written but in my opinion, contains little information of interest. I think authors should improve the text by including a table with structural information on available useful boron-containing compounds and their current applications in the clinics, as well as potential drugs in preclinical development. Additional comments: 1) I do not see the reason why boron should be written in capital letters in the title of the manuscript. 2) The sentence "In the last few years, BCCs have targeted G-protein coupled receptors..." (line 3, p. 5) is not correct. Probably authors mean that researchers have developed BCCs targeting G-protein coupled receptors... (this information would be nice in the table with further details on the structures of relevant compounds and their applications). 3) I do not think that references 14 and 16 are appropriate in the context of translational medicine unless the rationale is carefully explained. They correspond to work done in *Drosophila* and its relevance to humans is not clear. 4) Same comment applies to ref. 19, where work refers exclusively to plants and I am skeptical about the existence of similar SLC4 anion exchangers in humans. This issue requires further clarification.

INITIAL REVIEW OF THE MANUSCRIPT

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Plagiarism

No