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Point to point Response

SPECIFIC COMMENTS TO AUTHORS

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

Response: Thank you very much for your comments. We have added a figure and discussed some other recent papers regarding the involved topics. We hope these changes improve the quality of our manuscript.

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 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.

Response: The submitted manuscript is a short editorial letter. Then, we are expressing the key topics in the expanding roles of boron in medicine. We have added comments, a figure and the table suggested by you.

Additional comments: 1) I do not see the reason why boron should be written in capital letters in the title of the manuscript.

Response: We have edited this word in the title.

2) The sentence "In the last few years, BCCs have targeted G-protein coupled



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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).

Response: We have edited this part of the manuscript and added the table.

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.

Response: We have edited in order to be clearer regarding the inclusion of these references and the meaning of that deducted from these papers.