

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 61981

Title: Regulation of bone metabolism mediated by β -adrenergic receptor and its clinical application

Reviewer's code: 02446061

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Full Professor, Research Scientist

Reviewer's Country/Territory: Mexico

Author's Country/Territory: China

Manuscript submission date: 2021-01-12

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-06-24 11:47

Reviewer performed review: 2021-06-24 12:23

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript is interesting. However lacks some relevant topics regarding basic and clinical background. a) Authors should add clearly the role of Epinephrine after the role of SNS in the introduction (as is mentioned in their figure); also they must add comments regarding the possibilities of signaling, albeit if not is a topic which should be discussed in deep form. -Liu, J. J., Horst, R., Katritch, V., Stevens, R. C., & Wüthrich, K. (2012). Biased signaling pathways in β 2-adrenergic receptor characterized by ^{19}F -NMR. *Science*, 335(6072), 1106-1110. -Soriano-Ursúa, M. A., Trujillo-Ferrara, J. G., Correa-Basurto, J., & Vilar, S. (2013). Recent structural advances of β 1 and β 2 adrenoceptors yield keys for ligand recognition and drug design. *Journal of medicinal chemistry*, 56(21), 8207-8223. b) Authors must review recent works regarding the mentioned in the last section before conclusions. Then, they should edit those two sections. The content of the following articles is relevant in the field. - Haffner-Luntzer, M., Foertsch, S., Fischer, V., Prystaz, K., Tschaffon, M., Mödinger, Y., ... & Reber, S. O. (2019). Chronic psychosocial stress compromises the immune response and endochondral ossification during bone fracture healing via β -AR signaling. *Proceedings of the National Academy of Sciences*, 116(17), 8615-8622. - Nevola, K. T., Kiel, D. P., Zullo, A. R., Weiss, S., Homuth, G., Foessl, I., ... & Lary, C. W. (2021). miRNA Mechanisms Underlying the Association of Beta Blocker Use and Bone Mineral Density. *Journal of Bone and Mineral Research*, 36(1), 110-122. - Hofbauer, L. C., & Henneicke, H. (2018). β -Blockers and bone health. *The Journal of clinical investigation*, 128(11), 4745-4747. - Kim, B. J., Kwak, M. K., Ahn, S. H., Kim, H., Lee, S. H., Song, K. H., ... & Koh, J. M. (2017). Lower bone mass and higher bone resorption in pheochromocytoma: importance of sympathetic activity on human bone. *The Journal of Clinical Endocrinology & Metabolism*, 102(8), 2711-2718. - Kim, B. J., Lee, S. H., & Koh, J. M.

(2019). Effects of Sympathetic Activity on Human Skeletal Homeostasis: Clinical Evidence from Pheochromocytoma. *Clinical Reviews in Bone and Mineral Metabolism*, 17(1), 40-47. - Ghosh, M., & Majumdar, S. R. (2014). Antihypertensive medications, bone mineral density, and fractures: a review of old cardiac drugs that provides new insights into osteoporosis. *Endocrine*, 46(3), 397-405.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Manuscript NO: 61981

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Reviewer's Country/Territory: Mexico

Author's Country/Territory: China

Manuscript submission date: 2021-01-12

Reviewer chosen by: Chen-Chen Gao

Reviewer accepted review: 2021-07-27 23:42

Reviewer performed review: 2021-07-27 23:58

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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From my perspective, the manuscript is now adequate to be published.