

Date: April 26, 2022

To,
Editor-in-Chief
World Journal of Stem Cells

Re: Manuscript Number: 76694

Dear Sir/Madam,

Thank you for giving us the opportunity to submit the revised version of the above manuscript. Please find below the point by point response to the reviewers' and editors' comments. The changes made in the text in the manuscript are tracked.

We hope that the changes implemented encounter the favour of the Reviewers, and that the manuscript has now reached the standard necessary to be accepted for publication in *World Journal of Stem Cells*.

Sincerely,

Ashim Gupta, MS, PhD, MBA, DABRM

Reviewer #1Comments

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors:

The authors focused on the recent article that provided an exceptional description of the effect of epigenetic modifications on gene expression patterns related to skeletal system remodelling and did a great supplement. I fully agree with the author's definition of stem cells and LncRNA and miRNAs interaction, as a new mechanism regulating the function of the musculoskeletal system, should be fully reflected in the paper as an important complement to the epigenetic regulation by long noncoding RNAs. All In all, the authors provided a superficial review of lncRNA expression and osteoarthritis to clarify what was mentioned and separated the regulation in progenitor and non-progenitor cells. Q1 Epigenetic regulation involves many aspects, including DNA methylation and histone modification. The title of the article needs to be revised.

Thank you for the comment. The authors agree with the reviewer and as suggested have revised the title of the article.

Reviewer # 2 Comments

Scientific Quality: Grade C (Good)

Language Quality: Grade A (Priority publishing)

Conclusion: Accept (General priority)

Specific Comments to Authors:

Comments for ESPS Manuscript NO 76694 This "Letter to the Editor" adds some examples to demonstrate the interaction between lncRNAs and miRNAs as a novel mechanism for regulating the function of the musculoskeletal system. It is helpful for readers to have a better understanding of this issue. I have no other comments.

Thank you for the comment. We appreciate it.

Reviewer # 3 Comments

Scientific Quality: Grade B (Very good)

Language Quality: Grade A (Priority publishing)

Conclusion: Accept (General priority)

Specific Comments to Authors:

The article titled "Epigenetic regulation by long noncoding RNAs in osteo-/adipogenic differentiation of mesenchymal stromal cells and degeneration bones diseases" provides evidence of lncRNAs' involvement in MSCs osteo-/adipogenic differentiation balance. This editorial provides a more precise introduction to MSCs and add an introduction to

the interaction mechanism of lncRNAs and miRNAs in regulating the function of the musculoskeletal system. The author also gives a concisely review of OA related research.

Thank you for the comment. We appreciate it.

Science Editor

The manuscript seems to be adequate to be considered as a brief letter in the WJSC. Please consider edit the title and the abstract to declare clearly the content of the manuscript.

Thank you for the comment. The suggested changes have been made in the manuscript.

Company Editor-in-Chief

I have reviewed the Peer-Review Report, full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Stem Cells, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office’s comments and the Criteria for Manuscript Revision by Authors. Please be sure to use Reference Citation Analysis (RCA) when revising the manuscript. RCA is an artificial intelligence technology-based open multidisciplinary citation analysis database. For details on the RCA, please visit the following web site: <https://www.referencecitationanalysis.com/>. Please provide decomposable Figures (in which all components are movable and editable), organize them into a single PowerPoint file. Please check and confirm whether the figures are original (i.e. generated de novo by the author(s) for this paper). If the picture is ‘original’, the author needs to add the following copyright information to the bottom right-hand side of the picture in PowerPoint (PPT): Copyright ©The Author(s) 2022. If an author of a submission is re-using a figure or figures published elsewhere, or that is copyrighted, the author must provide documentation that the previous publisher or copyright holder has given permission for the figure to be re-published; and correctly indicating the reference source and copyrights. For example, “Figure 1 Histopathological examination by hematoxylin-eosin staining (200 ×). A: Control group; B: Model group; C: Pioglitazone hydrochloride group; D: Chinese herbal medicine group. Citation: Yang JM, Sun Y, Wang M, Zhang XL, Zhang SJ, Gao YS, Chen L, Wu MY, Zhou L, Zhou YM, Wang Y, Zheng FJ, Li YH. Regulatory effect of a Chinese herbal medicine formula on non-alcoholic fatty liver disease. World J Gastroenterol 2019; 25(34): 5105-5119. Copyright ©The Author(s) 2019. Published by Baishideng Publishing Group Inc[6]”. And please cite the reference source in the references list.

Thank you for the comment. The figures used in the manuscript are original.

I hope that the changes implemented have improved the quality of the manuscript, and that it has now reached the necessary standard to be formally accepted for publication in the *World Journal of Stem Cells*.

We look forward to hearing from you.

Sincerely,

Ashim Gupta, MS, PhD, MBA, DABRM