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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 76694

Title: Long noncoding RNAs in mesenchymal stromal/stem cells osteogenic differentiation: implications in OA pathogenesis

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05108542
Position: Peer Reviewer
Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2022-03-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-28 12:45

Reviewer performed review: 2022-04-06 12:01

Review time: 8 Days and 23 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The article titled "Epigenetic regulation by long nocoding RNAs in osteo-/adipogenic differenation of mesenchymal stromal cells and degeneration bones dieases" provides evidences of lncRNAs' involvement in MSCs osteo-/adipogenic differenation 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 researches.

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Title: Long noncoding RNAs in mesenchymal stromal/stem cells osteogenic differentiation: implications in OA pathogenesis

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02438768
Position: Editorial Board
Academic degree: MD
Professional title: Associate Professor
Reviewer's Country/Territory: China
Author's Country/Territory: United States

Manuscript submission date: 2022-03-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-27 04:50

Reviewer performed review: 2022-04-07 01:23

Review time: 10 Days and 20 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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.

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Manuscript NO: 76694

Title: Long noncoding RNAs in mesenchymal stromal/stem cells osteogenic differentiation: implications in OA pathogenesis

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06257886
Position: Peer Reviewer
Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2022-03-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-29 00:38

Reviewer performed review: 2022-04-09 14:01

Review time: 11 Days and 13 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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 remodeling, 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