

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 65197

Title: Regulation of the mesenchymal stem cell fate by interleukin-17: Implications in osteogenic differentiation

Reviewer's code: 03950632

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: Serbia

Manuscript submission date: 2021-03-05

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-04-25 17:11

Reviewer performed review: 2021-04-27 10:04

Review time: 1 Day and 16 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" 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
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



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SPECIFIC COMMENTS TO AUTHORS

The title reflects the main subject of the manuscript and the abstract summarizes and reflects the work described in the manuscript. It is a good review because the authors have consulted a wide and updated bibliography on the subject and have focused on what has been published about the role of IL-17 in osteogenic differentiation, which is a key process in bone repair and regeneration. Minor concerns: -Authors must add keywords in the manuscript. -On page 13, line 5, the authors misspell Runx2. -Authors repeat this paragraph "Furthermore, a dichotomy of IL-17A roles can result from species-specific characteristics of MSCs and MSC-derived osteoblasts due to the interplay of various microenvironmental issues that condition IL-17A effects or mode of action at the cellular level. Although it is clear that IL-17A profoundly affects osteogenic differentiation, further standardized studies are necessary to unveil how osteogenic differentiation is either positively or negatively regulated and when IL-17 acts as a pro-osteogenic or anti-osteogenic cytokine. Finally, a deep understanding of the precise inflammatory and tissue conditions may help in designing better therapeutic strategies for IL-17A-associated bone diseases" at the conclusion of the manuscript.

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 65197

Title: Regulation of the mesenchymal stem cell fate by interleukin-17: Implications in osteogenic differentiation

Reviewer's code: 02566021

Position: Editorial Board

Academic degree: BSc

Professional title: Assistant Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Serbia

Manuscript submission date: 2021-03-05

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-04-27 08:04

Reviewer performed review: 2021-04-30 07:15

Review time: 2 Days and 23 Hours

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 type="checkbox"/> Grade A: Priority publishing <input checked="" 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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, even if in some parts it appears to be a little convoluted, is well written and deals with the role of interleukin 17 in osteogenic differentiation in an in-depth and updated manner. A weakness of the paper is the conclusion, which is trivial. No mechanistic hypothesis is formulated as to why interleukin 17 can work positively or negatively on bone. By the way, the last sentence is repeated 2 times.