

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 54893

Title: Mesenchymal stem cell and mesenchymal stem cell-derived extracellular vesicles:
Potential roles in rheumatic diseases

Reviewer's code: 03810624

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Canada

Author's Country/Territory: China

Manuscript submission date: 2020-03-04

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-03-04 03:17

Reviewer performed review: 2020-03-05 18:45

Review time: 1 Day and 15 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 Grade E: Do not publish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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input 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

This manuscript reviewed the roles of mesenchymal stem cells (MSCs) and mesenchymal stem cell-derived extracellular vesicles (EVs) in rheumatic diseases. The recent advances, functional roles and mechanisms of MSCs and EVs in rheumatic diseases are discussed. The work is interesting. The following comments should be addressed before this paper can be further considered: I) The authors should add one more paragraph at the end of introduction. In this paragraph, the authors should talk about the existing relevant reviews and the importance of current reviews. What make the current review different from the previous? II) The authors should add at least a figure to highlight several key studies discussed in the text. III) The authors should change the section of "Future directions" to "Conclusion and future perspectives". More points should be added to future perspectives with detailed explanations. IV) Figure 1, full form of all abbreviations should be stated in figure caption. V) References should be added to Table 1. VI) The authors should cite and discuss some relevant publications which include but not limited to the followings: (a) Mesenchymal stem cells for regenerative medicine. *Cells*, 8(8), 886, 2019 (b) Mesenchymal stem cell therapy for ischemic tissues. *Stem cells international*, 2018. (c) Mesenchymal stem cell-based therapies in regenerative medicine: applications in rheumatology. *Stem cell research & therapy*, 2(2), 14, 2011.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 54893

Title: Mesenchymal stem cell and mesenchymal stem cell-derived extracellular vesicles:
Potential roles in rheumatic diseases

Reviewer's code: 03549489

Position: Peer Reviewer

Academic degree: PhD

Professional title: Senior Research Fellow

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: China

Manuscript submission date: 2020-03-04

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-03-04 09:43

Reviewer performed review: 2020-03-16 12:54

Review time: 12 Days and 3 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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input 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

This paper discusses the potential use of MSCs and MSC-EVs in treatment of rheumatic diseases. The subject is interesting and of relevance, however, the review repeats much of what has already been published and reviewed surrounding MSCs and more care should be given to link the literature to the disease states mentioned. The review is thorough but there are some additional points that should be covered: how MSCs and/or EVs could be delivered as a treatment for rheumatic disease (e.g. systemically) and the source of the MSCs (bone marrow/adipose/other) and how this could affect the final treatment? The different information and studies given in the text could lend themselves to more tables and/or figures to ease the clarity of reading. The authors should consider changing the title to "Mesenchymal Stem Cell and Mesenchymal Stem Cell-derived Extracellular Vesicles: Potential Roles in Rheumatic Diseases" to reflect that these are not treatments that are currently available in clinic.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 54893

Title: Mesenchymal stem cell and mesenchymal stem cell-derived extracellular vesicles:
Potential roles in rheumatic diseases

Reviewer's code: 05085224

Position: Peer Reviewer

Academic degree: PhD

Professional title: Lecturer

Reviewer's Country/Territory: Egypt

Author's Country/Territory: China

Manuscript submission date: 2020-03-04

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-03-05 08:11

Reviewer performed review: 2020-03-21 19:07

Review time: 16 Days and 10 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input 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

While the manuscript addresses a valuable scientific challenge and the potential of mesenchymal stem cells and mesenchymal stem cell-derived extracellular vesicles for treatment of rheumatic disease; the manuscript was submitted as a systematic review, however, although the authors submitted the PRISMA checklist, the items of the list are not reflected in the manuscript. The manuscript is not presented as a systematic review. There is no flow chart, the PICOS question is not demonstrated, the authors mention that there is a protocol registration number but it is not mentioned in the text neither are eligibility criteria, nor the search strategies used, nor the statistical analysis of the studies retrieved from the search, risk of bias is not mentioned, there are no tablesetc. In short, the manuscript does not fit the criteria of a systematic review but a narrative review at best with some valuable information to the scientific community.