

## ESPS PEER REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**ESPS manuscript NO:** 12552

**Title:** SECRETION OF IMMUNOREGULATORY CYTOKINES BY MESENCHYMAL STEM CELLS

**Reviewer code:** 00609371

**Science editor:** Xiu-Xia Song

**Date sent for review:** 2014-07-15 16:13

**Date reviewed:** 2014-07-16 03:46

| CLASSIFICATION                                    | LANGUAGE EVALUATION   | RECOMMENDATION                      | CONCLUSION   |
|---|---|-------------------------------------|--|
| <input type="checkbox"/> Grade A: Excellent       | <input type="checkbox"/> Grade A: Priority publishing                           | Google Search:                      | <input type="checkbox"/> Accept                        |
| <input type="checkbox"/> Grade B: Very good       | <input type="checkbox"/> Grade B: Minor language polishing                      | <input type="checkbox"/> Existing   | <input type="checkbox"/> High priority for publication |
| <input checked="" type="checkbox"/> Grade C: Good | <input checked="" type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> No records | <input type="checkbox"/> Rejection                     |
| <input type="checkbox"/> Grade D: Fair            |   | BPG Search:                         |  |
| <input type="checkbox"/> Grade E: Poor            | <input type="checkbox"/> Grade D: Rejected                                      | <input type="checkbox"/> Existing   | <input type="checkbox"/> Minor revision                |
|   |   | <input type="checkbox"/> No records | <input checked="" type="checkbox"/> Major revision     |

## COMMENTS TO AUTHORS

The authors reviewed the literatures about the secretion of immunoregulatory cytokines by MSCs, mainly in the context of autoimmune diseases for understandable reason, even though it is generally assumed that MSCs are promising agents both for regenerative medicine and cell therapy of autoimmune disorders. Although it is quite valuable to timely refresh the readers' mind of the major findings in this fast moving field, readers from the field of autoimmune disorders are likely wondering in the end: where should we go from here? While the readers from the field of regenerative medicine, like me, would definitely want to know the specific implications for the future applications of MSCs in regenerative medicine. Another major concern is that even though it is good to have an extensive and balanced review, tight underlying logic and the concise final layout are equally important. In fact, the language improvement is urgently needed for this article, because the typos, grammar errors, abnormal and hard to understand sentences are seen quite often. For example: "leading to serious invalidization of the patients" "TNF $\alpha$  и IL-1 $\beta$ "

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**ESPS manuscript NO:** 12552

**Title:** SECRETION OF IMMUNOREGULATORY CYTOKINES BY MESENCHYMAL STEM CELLS

**Reviewer code:** 00364986

**Science editor:** Xiu-Xia Song

**Date sent for review:** 2014-07-15 16:13

**Date reviewed:** 2014-07-25 23:08

| CLASSIFICATION                                    | LANGUAGE EVALUATION   | RECOMMENDATION                      | CONCLUSION   |
|---|---|-------------------------------------|--|
| <input type="checkbox"/> Grade A: Excellent       | <input type="checkbox"/> Grade A: Priority publishing                 | Google Search:                      | <input type="checkbox"/> Accept                        |
| <input type="checkbox"/> Grade B: Very good       | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> Existing   | <input type="checkbox"/> High priority for publication |
| <input checked="" type="checkbox"/> Grade C: Good | <input type="checkbox"/> Grade C: A great deal of language polishing  | <input type="checkbox"/> No records | <input type="checkbox"/> Rejection                     |
| <input type="checkbox"/> Grade D: Fair            | <input type="checkbox"/> Grade D: Rejected                            | BPG Search:                         | <input type="checkbox"/> Minor revision                |
| <input type="checkbox"/> Grade E: Poor            |   | <input type="checkbox"/> Existing   | <input type="checkbox"/> Major revision                |
|   |   | <input type="checkbox"/> No records |  |

## COMMENTS TO AUTHORS

This is a review article. This manuscript summarized the cytokine/growth factor profiling secreted by the mesenchymal stem/progenitor cells (MSPCs) and the effects of those cytokines/growth factors on immunoregulation. Overall, the production and functions of cytokine/growth factors from MSPCs are clearly reviewed. The manuscript is well written. There are several concerns. 1. It is encouraged to add an independent paragraph to describe MSPCs in clinical trials and murine models in immune regulation. 2. A table summarizing the produced cytokines/growth factors may be helpful. 3. Careful proof reading is necessary as there are multiple typo and unclear sentences a. Page 6, two places contain unrecognized characters (eg. between TNFa and IL1b) b. In abstract, "It should be pointed out that in the process the MSCs by themselves are an object of cytokine regulation" this sentence is not clear. 4. At the end, make a clear cut for a conclusion paragraph, as it just looks like a paragraph of PGE2.