



**ESPS JOURNAL EDITOR-IN-CHIEF’S REVIEW REPORT**

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

**ESPS manuscript NO:** 12687

**Title:** Multipotent stem cell and current application

**Journal Editor-in-Chief (Associate Editor):** Paul Lu

**Country:** United States

**Editorial Director:** Xiu-Xia Song

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ACADEMIC CONTENT EVALUATION	LANGUAGE QUALITY EVALUATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Revision
<input checked="" type="checkbox"/> Grade D: Fair		
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Rejection

**JOURNAL EDITOR-IN-CHIEF (ASSOCIATE EDITOR) COMMENTS TO AUTHORS**

The authors in this revised manuscript address previous reviewers’ comments and suggestions and narrowed down to the topic of “Multipotent stem cell and current application” . Multipotent stem cells (MSCs) are still a broad topic and one such a typical MSCs is Mesenchymal Stem Cells or bone Marrow Stromal Cells, which is also abbreviated as MSCs. One major concern is that the authors classified multipotent stem cells (MSCs) as adult stem cells, which is not true since neural stem cells are multipotent stem cells that can be isolated from both fetal and adult central nervous system. The authors also gave other examples of fetal derived MSCs, such as amniotic fluid stem cell (AFSCs), which is obtained from embryo related tissues. On the other hand, mesenchymal stem cells (MSCs) are typical adult stem cells. The same abbreviation for multipotent stem cells and for mesenchymal stem cells is sometimes confused. The other major concern is the English language usage: grammars are wrong in many places, and some sentences are very hard to understand. The authors can ask a native English writer to polish the manuscript or the editors of this journal need to spent time to edit and correct the grammars of this manuscript. In addition, the authors can emphasize his/her own research. The following are some examples of inappropriate concept or wrong grammars: Abstract “Function cells” should be “Specialized cells” Core tip: In this review, the authors have been tried to outline the characteristics of multipotent stem cells and their applications in clinics. Page 4, “self-renewing for extended time and give rise into specific cells with particular action” .Here “action” should be “function” Page 4, “Recently, the application of stem cell for



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treatment of numerous disorders like neural and cardiac disorders has become a familiar subject with enormous guarantee in the upcoming of medical sciences[17,18].” The above sentence is hard to understand, here is a modified sentence below: Recently, the experiments of stem cells for treatment of numerous disorders, such as cardiac disorders, has shown great promise for future application in medical field [17,18] Page 4, “this kind of stem cell” should be “stem cells”; “other line” should be “other lines” Page 4, “disparate neural cells and glia” here neural cells include glia, should be “disparate neuronal cells and glia” Page 4, “MSCs are considered as adult stem cells” . This is not true. Neural stem cells are MSCs that can be isolated from both fetal and adult tissues Page 5, “Pluripotent stem cells essentially specialize into MSCs, and formerly MSCs produce cells with a definite target and role[17,19]”. It is hard to understand. Page 5, “Neural cells differentiate to nerve cells” should be “Neural stem cells differentiate to neural cells” Page 6, “MSCs are adult stem cells that are created in human in a number of mature and embryonic organs” If they are from embryonic organs, how one calls them “adult” stem cells. Another example is “amniotic fluid stem cell (AFSCs)” which is obtained from embryo-related tissues. Page 7, “EGF andangiopoietin-1” should be “EGF and angiopoietin-1” Page 7, “All these cells do not have the capability to reconstruct a complete organ and characterized by quick adherence, colony formation, extended proliferation and differentiation to all three germ layer.” MSCs can’ t differentiate into cells in all three germ layers Page 8, “Marrow stromal cells exhibit high expression of integrins  $\alpha 1$ ,  $\alpha 5$  and  $\alpha 1$ , low expression of  $\alpha 2$ ,  $\alpha 3$ ,  $\alpha 6$ ,  $\alpha V$ ,  $\beta 2$  and  $\beta 4$ , and no expression of  $\alpha 4$ ,  $\alpha L$  and  $\beta 2$ .” Special characters were missing in the manuscript. Page 9, “magnetis” should be “magnetic” Page 15, “This issue suggest that” should be “This issue suggests that” Page 20, “Current clinical researches recommend that AFSCs can play significant roles in the treatment of degenerative or behavioral brain disease such as stroke, Parkins