

Review Form 1.6

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| Journal Name: | Journal of Advances in Medicine and Medical Research |
| Manuscript Number: | Ms_JAMMR_84622 |
| Title of the Manuscript: | The study on the gender difference in the proliferation rate of human umbilical mesenchymal stem cells |
| Type of the Article | |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljammr.com/index.php/JAMMR/editorial-policy>)

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PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Compulsory REVISION comments | <p>I strongly recommend author to incorporate all of the following comments please.</p> <p>General comments</p> <p>It is my honor to review this manuscript and I appreciate authors to undertake this type of study.</p> <ol style="list-style-type: none"> Abstract <p>Please follow the correct sequences when you write abstract (please try to include the following section in to your abstract: introduction, methods, results and conclusion)</p> <p>Authors are not expected to use abbreviation in the abstract section.so please try to minimize your abbreviation in abstract section.</p> <p>There are many grammatical errors in your whole documents .please try to evaluate your manuscript with English language experts.</p> <p>Please try to include rewards to your manuscript</p> <p>Generally authors are expected to strictly follow the journal guideline during writing all section of the manuscript please.</p> Introduction <p>Authors are expected to revise the whole documents before submission of next revision according to the journal guideline please.</p> <p>"The stem cell therapy is being more and more focused on, because it may improve the human disease therapy revolutionarily." Please support with reference</p> <p>"Human umbilical cord mesenchymal stem cells (hUC-MSCs), as a kind of adult stem cell, are greatly paid attention to, because they are easily prepared, low immunogenic and have no ethic problems." Please support with references</p> <p>"However, the gender of hUC-MSCs is usually neglected." Please support with reference</p> <p>"In fact, if hUC-MSCs is from the male baby, its genotype is XY; if hUC-MSCs is from the female baby, its genotype is XX." Please with references</p> <p>"During the routine hUC-MSCs related research, we noticed that there was difference about the proliferation rate between the male hUC-MSCs and the female hUC-MSCs and no relative report was published currently, so, in order to investigate this phenomenon systematically, we carried out this research about the proliferation rate difference between the male hUC-MSCs and the female hUC-MSCs." Please your justification is not enough. Please try to elaborate your and discuss deeply concerning your justification of your research.</p> <p>Generally introduction is inadequate and authors are expected to elaborate the introduction section.</p> Method section <p>"CO₂ cell incubator (Thermo Inc., United States, Model: 3111); Inverted microscope (Leica Inc., Germany, Model: DMI 3000B); Flow cytometry instrument (Beckman Inc., United States, Model: FC-500); Microplate reader (Thermo Inc., United States, Model: Multiskan GO); Quantitative PCR instrument (Bio-rad Inc., United States, Model: IQ5)." Please try to giveclarification for the above terms in the method section please."</p> <p>Authors are expected to define and give clarification for the tools used in this manuscript deeply.</p> <p>Authors are expected to include number of samples included in the study.</p> <p><i>"The preparation and identification of hUC-MSCs.</i></p> <p>The umbilical cords were collected from the cesarean healthy babies with term pregnancy in the Second Affiliated Hospital of Sichuan University. The collected umbilical cords were processed in 4-6 hours." please try to correct some o grammatical error in your document please. Capital letter should be used only in the beginning of the sentences.</p> Results <p>There are many grammatical problems in the result section. Please try to edit it again.</p> Discussion <p>"In the summary of the data on the proliferation rates of the male and the female hUC-MSCs, the paired t test method was used because: (1)" this sentence is un important please remove it.</p> <p>") the preparative conditions were similar for the cells in the same batch, but they might be different for the</p> | |

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| | <p>cells in different batches, so the independent sample t test method could not be used; (2) the conditions were similar for the cells in the same batch and they could be paired.” Please write this section in the method section.</p> <p>“Currently, there are no reports about the difference between the male and the female hUC-MSCs and there are only some reports about the gender difference for other types of mesenchymal stem cells: Shamsul et al.’ please use appropriate citation in your manuscript.dont mix Harvard style and van cover citation style.</p> <p>“compared the age and gender factors on the proliferation of the human bone marrow mesenchymal stem cell, and found that under the age of 40, the proliferation of the human derived marrow mesenchymal stem cell had no gender difference in [8]; Zanotti et al.” please try to edit this paragraph again. There is also reference citation problem e.g” difference in [8]; Zanotti et al.” you are not expected to write your reference in two ways. Either you should use Vancouver style or Harvard style.</p> <p>“compared the bone formation in the mice of different gender, and found that the bone formation in mice had gender difference [9]; Hong et al.” similar comments as the above. Please try to correct this error and authors are expected to edit or make his/her manuscript evaluated by English language expert.</p> <p>“compared the bone formation in the mice of different gender, and found that the bone formation in mice had gender difference” are you conducting your research in human beings or mice ?</p> <p>“investigated the effects of the steroid hormones on the proliferation and the bone differentiation of the bone marrow mesenchymal stem cell of different gender, and found the relative responsiveness to steroid hormones had gender difference [10].” This paragraph needs edition before next submission please.</p> <p>“The selected 12 proliferation-related genes were publicly recognized [7]. From the obtained expression pattern, it was shown that the male hUC-MSCs had higher expression levels than the female hUC-MSCs for most of those 12 genes, which preliminarily clarified the possible molecular mechanism of the difference in the proliferation rates between the male and the female hUC-MSCs. “please there are much problems in your discussion section. Please try to make clear compare and contrast in your discussion section.so authors are expected to correct all of these errors in your discussion section.</p> <p>Generally discussion section is in adequate and needs more clarification please.so authors should deeply discuss the discussion section please.</p> <p>The next comment is that authors should add conclusion to their study please.</p> <p>Authors should include ethical statement to their manuscript. How the sample was taken. Are you taken oral informed consent or written consent during sample collection please add ethical statement issue please.</p> <p>For the rest part your manuscript please clearly follow your journal guideline</p> <p>6. References</p> <p>Please try to use similar referencing style throughout your manuscript and reference section.</p> <p>Please try to use software of reference citation, medley desktop, End note or other accordingly please.</p> <p>Some references are old .so authors are expected to use the new one please e.g rereference number “[7] Whitfield ML, George LK, Grant GD, Perou CM. Common markers of proliferation. Nat Rev Cancer. 2006, 6(2):99-106.”, [8] Shamsul BS, Aminuddin BS, Ng MH, Ruzymah BH. Age and gender effect on the growth of bone marrow stromal cells in vitro. Med J Malaysia. 2004, 59 Suppl B:196-197.”, and “[10] Hong L, Sultana H, Paulius K, Zhang G. Steroid regulation of proliferation and osteogenic differentiation of bone marrow stromal cells: a gender difference. J Steroid Biochem Mol Biol. 2009, 114(3-5):180-185. “</p> | |
| Minor REVISION comments | | |
| Optional/General comments | | |

PART 2:

| | Reviewer’s comment | Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

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