

Duque de Caxias, 27th of January 2019

Dear Editor Jin-Lei Wang,

Please find enclosed the reviewed manuscript file no: 42608 in Word format.

Title: Adipose-derived stromal/stem cells from different adipose depots in obesity development

Authors: Karina R Silva and Leandra S. Baptista

We read with really interest your letter regarding the possibility of resubmitting our manuscript for consideration of publication in World Journal of Stem Cells. We carefully read the reviewers' comments to our first submission and we attempted to address all the reviewer's concerns.

Enclosed below please find the responses to the reviewer's concerns in separate sheets. All changes introduced in the text of this revised version of the manuscript are highlighted in yellow. Since we have incorporated the reviewers' recommendations, we hope that the editors and referees will now find the revised version acceptable for publication in World Journal of Stem Cell. Furthermore, we have changed the title of manuscript to reflect better all the changes suggested.

We confirm that the content of the manuscript is original, and it has not been published or accepted for publication, either in whole or in part, in any form. No part of the manuscript is currently under consideration for publication elsewhere. All authors have read and approved the revised version of the manuscript.

Looking forward to a favorable final review process.

We thank you and reviewers in advance for your time and effort.

Leandra S. Baptista

To whom correspondence should be addressed:

Dr. Leandra Santos Baptista. Address: Laboratory of Tissue Bioengineering, Directory of Metrology Applied to Life Sciences, National Institute of Metrology, Quality and Technology (Inmetro), Duque de Caxias, RJ, 25250-020, Brazil. leandrabaptista@xerem.ufrj.br. Telephone +55(21)21453151.

Reviewed by Reviewer number 1:

The mini-review is well written and fully summarizes the different known genetic and metabolic characteristics of stromal/stem cells derived from visceral or subcutaneous white adipose tissue. However, some observations are necessary:

1) The abstract is unclear and does not reflect well the quality of the work.

REPLY: We have rewritten the abstract in order to make it more clear and in line with the quality of the work. Please see the Section “Abstract” of the revised manuscript.

2) Some errors in the English language are present.

REPLY: This manuscript was revised by a professional science editor, for improved readability and style. The certify was attached in the new submission.

3) A table or a figure summarizing the different characteristics of cells from different anatomical districts would have been useful for the readers

REPLY: We have added a table summarizing the different characteristics of ASC cells from different anatomical depots and added some descriptions regarding the papers included in the table. Please see the topic “Regional differences in ASC functionality in obesity and its effect on fat distribution pattern and expansion”, subtopic “ASC behavior in WAT depots in the obesity scenario” of the revised manuscript plus the file that is enclosed with the revised manuscript.

Thank you very much for your considerations and suggestions.

Reviewed by Reviewer number 2:

This is an important and interesting minireview overviewing depot-specific ASCs derived from white adipose tissue. The immune and metabolic interactions may be described more in detail to explain the metabolic inflammation.

REPLY: We have added more information in the manuscript in order to describe the immune and metabolic interactions more in detail. The references that were added are highlighted in yellow in the reference list and the following references were renumbered through the text accordingly. Please see the modifications highlighted in yellow of the topic “Relationship between obesity-induced inflammation and adipogenesis”, subtopic “WAT inflammation in obesity” in the revised version of the manuscript.

Thank you very much for your considerations and suggestion.