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Reviewer's code: 02848013

SPECIFIC COMMENTS TO AUTHORS

Dear Author, I read with interest the article entitled "Adipose-derived mesenchymal stem cells alleviate the TNBS-induced Crohn's disease phenotype in rats by influencing intestinal epithelial cell regeneration, Wnt signaling and T cell immunity". The study analyzes the effects of adipose-derived stem cells on an experimental model of crohn's colitis in the rat. The topic is very interesting and current, being that of stem cells one of the areas of greatest interest in the research for new therapies for Crohn's disease. The study is well conducted and designed with interesting results, even if partially new. In the general setting there are some errors and in particular, in the results chapter, there are paragraphs in which comments are expressed (for example "Successful isolation and identification of ADSCs" or "ADSCs induced a protective response in rats with TNBS-induced colitis") which instead should be included only in the discussion. Similarly, again in the discussion chapter, there are paragraphs which describe the methods used. These should only be included in the methods chapter. Similarly, again in the discussion chapter, there are paragraphs which describe the methods used. This creates a mix of information that makes understanding and analytical reading more difficult.

Replies to Reviewer 02848013:

Comment 1: *Dear Author, I read with interest the article entitled "Adipose-derived mesenchymal stem cells alleviate the TNBS-induced Crohn's disease phenotype in rats by influencing intestinal epithelial cell regeneration, Wnt signaling and T cell immunity". The study analyzes the effects of adipose-derived stem cells on an experimental model of crohn's colitis in the rat. The topic is very interesting and current, being that of stem cells one of the areas of greatest interest in the research for new therapies for Crohn's disease. The study is well conducted*

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and designed with interesting results, even if partially new.

Reply: Thank you very much for your valuable comments and suggestions to improve our manuscript! The comments and suggestions are replied point-by-point below.

Comment 2: *In the general setting there are some errors and in particular, in the results chapter, there are paragraphs in which comments are expressed (for example "Successful isolation and identification of ADSCs" or "ADSCs induced a protective response in rats with TNBS-induced colitis") which instead should be included only in the discussion.*

Reply: Thank you very much for your valuable comments and suggestions.

We are very sorry for the previous non-standard expression and have made relative changes. "Successful isolation and identification of ADSCs" has been changed to “Isolation and Characterization of ADSCs”, and "ADSCs induced a protective response in rats with TNBS-induced colitis" has been changed to “ADSCs alleviated TNBS-induced experimental colitis in rats”. In addition, in order to make the expression more accurate, we have made some other modifications, in results section of the revised version on pages 10 to 12.

Comment 3: *Similarly, again in the discussion chapter, there are paragraphs which describe the methods used. These should only be included in the methods chapter. This creates a mix of information that makes understanding and analytical reading more difficult.*

Reply: Thank you very much for your valuable comments and suggestions.

We apologize for the confusion. In order to make understanding and analytical reading clearer, we have moved the paragraph ”The transcription factor Foxp3 is a marker of Treg cells, GATA3 is a marker of T helper cells, RORγt is a transcription factor that is specific for Th17 lineage commitment and T-bet is a biomarker for Th1 cells” from results chapter to methods chapter. In addition, in order to make the expression clearer,

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we have made a few other modifications that could be traced in the revised manuscript. Generally, we explained the effect of Adipose-derived mesenchymal stem cells from the angles of cell regeneration, Wnt signaling and T cell immunity, including aspects of cellular mucosa integrity and cell immunity.