Reviewer's report

Title: Mesenchymal Stem/Stromal Cells as Delivery Platform in Cell and Gene Therapies

Version: 1 Date: 13 April 2015

Reviewer: Peiman Hematti

Reviewer's report:

This is a very comprehensive and extensive review of essentially preclinical literature on the potential of MSCs for treatment of kidney, lung, heart, liver, pancreas, nervous and skeletal diseases. The following minor but essential revisions will significantly improve the manuscript and is highly recommended to be made:

1) The introduction section is very brief and not enough for the people who are not in this field to understand what are MSCs,

2) The introduction section should also briefly describe the immunomodulatory potential of MSCs and their use in the field of BMT (but emphasize that is not the main focus of this manuscript). I think this explanation is important because the first and most advanced use of MSCs has been in the field of BMT and because of their immunomodulatory properties.

3) This review is mainly based on pre-clinical data and only focused on animal studies; it will be useful to have a brief section dedicated to the clinical experience using MSCs for these different conditions, at least showing their safety. If not then I suggest the title to be changed to "Use of Mesenchymal Stem/Stromal Cells as delivery platform in pre-clinical models of cell and gene therapies".

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.