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Title: Mesenchymal Stem Cells for treatment of eye diseases

Authors: Giuliana Mannino, Cristina Russo, Anna Longo, Carmelina Daniela Anfuso, Gabriella Lupo, Debora Lo Furno, Rosario Giuffrida and Giovanni Giurdanella

New Title:

“Potential therapeutic applications of Mesenchymal Stem Cells for the treatment of eye diseases”

Reviewer #1: Since the topic was reviewed recently elsewhere, it would benefit the readers if the authors can discuss about the 1. several challenges in utilizing MSCs for treatment of retinal diseases 2. compare the advantages of utilizing MSCs from one tissue source, say adipose tissue over MSCs from other tissue sources specifically for retinal diseases

Authors: The manuscript was deeply revised. The different sources of MSCs are now specified and, for a better comparison, they are summarized in one table for each disease. In addition, results of many other studies were added; especially those obtained using genetically engineered MSCs.

We thank Reviewer #1 for her/his comments, which surely helped to improve the manuscript. We hope to have satisfactorily answered her/his observations

Reviewer #2: The manuscript cover an important area, the study design is beautifully established and executed. However, there is a need to improve the manuscript and make it more attractive to the authors. Title of the manuscript is generalized, It need to be focused. The heading of each section e.g Retinitis Pigmentosa need to broken down in sub heading, for MSCs transplantation, Conditioned media, coculture, and role of EVs. Limited data from literature is added, Gene modification/ overexpression data need to be added to make it more attractive to the readers. Table should be added, highlighting study findings with reference. The manuscript need to be revised in form of mechanistic finding why the stem cells improved the diseased conditioned, which signaling pathway is up or down regulated.

Authors: We thank Reviewer #2 for appreciating our efforts.

- 1- The title now better focuses the purpose of the manuscript (at least in our opinion).
 - 2- Many subheadings for each section were not easy to do, since in the same paper the authors often describe and compare different approaches (i.e., in vitro and in vivo experiments; cell or conditioned medium administration; co-cultures and single cell cultures). However, each section was broken down into four parts, introducing three subheadings: MSC-based treatments, genetically engineered MSCs and clinical trials.
 - 3- Further studies are now included, especially those obtained using genetically engineered MSCs.
 - 4- Three Tables (one for each section) were added, summarizing main results of cited studies.
 - 5- Some further information about of MSC-induced up or downregulation of signaling pathway has been added.
- We thank Reviewer #2 for her/his comments, which surely helped to improve the manuscript. We hope to have satisfactorily answered her/his observations