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Name of Journal: *World Journal of Stem Cells*

ESPS Manuscript NO: 27675

Manuscript Type: Review

Author's responses to the reviewers' comments

Reviewed by the referee # 02104609

It should be split into two manuscripts: "An overview on the role of blood mononuclear cells in the treatment of age-related infertility" as a review article after further expansion. Other section can be reorganised as a "View and Opinion" manuscript with debatable personal opinions. Reducing abbreviations will make readers easy to follow, e.g. SCN - stem cell niche, ...

Author's response:

The MS has been significantly expanded, the other section in particular. Other two referees were satisfied with the submitted manuscript and proposed a single adjustment each to the other MS section. The abbreviations have been reduced.

Reviewed by the referee # 2446101

This manuscript is a review about the BMCs' contribution to the development of germ and granulosa cells for follicular development from ovarian stem cells in midpregnancy fetal ovaries, and to follicular renewal in the young fertile women. Generally speaking, this article was written well. The content is substantial and beneficial to related field. And the language is smooth. However, I still have a question that whether the pyramids mentioned in line 414 do have scientific proof and any relationship with this topic. To sum up, I think this manuscript can be accepted after a major revision.

Author's response:

The scientific proofs from rat experiments on the healing effects of pyramids have been included in the given section.

Reviewed by the referee # 02446114

This is a good paper. The only concern is the safety issue on implication of hESCs, which is not addressed in the manuscript.

Author's response:

The issue of possible generation of hESCs was removed from the ovarian infertility treatment section. The problems with implication of hESCs and other *in vitro* developed stem cells for the treatment of various functional and degenerative diseases are widely reviewed in the section entitled : STEM CELL THERAPY IN THE REGENERATIVE MEDICINE of the revised MS.