**Reviewer #1
The review is well written. In this review, the author have focused on the involvement of macrophages in OC during ageing process and the
macrophages-based treatment therapeutic strategies for OC.**

Response: Thank you for your careful review, useful suggestions and spent some time on reviewing our manuscript. We have carefully studied your comments point by point and tried to reply with our best answers. We hope that our answers might meet your approval. If you find our replies not satisfactory, we are more than pleased to make further attempts to improve this manuscript.

1. **How about ageing related biomarkers in M2?**

Response: Thank you for your well advice. Ageing acts as the real biological changes with the increase of age distribution. In addition, M2 could also be divided into four subtypes. The biomarkers about these various types have been shown in Table 1.

**2)it is necessary for the author to summarized a diagrammatic sketch.**

Response: Thank you for your valuable and professional comments. We have added the Table 1 to illustrate the different inducers, cell expression markers, cytokines and chemokines production among several subtypes of macrophages.

**Reviewer #2
This is a review article relating to ovarian cancer and tumor associated
macrophages (TAMs). It is comprehensively summarized the current knowledge about the role of TAMs in ovarian cancer progression. The authors are also summarized the potentials of therapeutic strategy to target TAMs for ovarian cancer. Overall, this is informative and useful for the researchers and clinicians in the field relating to caner and aging. However, there is a couple of concerns shown below for the manuscript.**

Response: Thank you for your careful review, useful suggestions and spent some time on reviewing our manuscript. We have carefully studied your comments point by point and tried to reply with our best answers. We hope that our answers might meet your approval. If you find our replies not satisfactory, we are more than pleased to make further attempts to improve this manuscript.

**1. Macrophage polarization is most important topic in this manuscript. It is preferred to mention more detail about classification of macrophages. Although pro-inflammatory M2 macrophages seem to more contribute pathogenesis in ovarian cancer and to be more promising target for therapy, summarized statement about differences between M1 and M2 macrophages is helpful for readers to understand. Summarized Figure or Table could be better.**

Response: Thank you for your valuable and professional comments. We have added the Table 1 to illustrate the differences among several subtypes of macrophages.

**2. Page 2, line 37 in Abstract section, it is better to rephrase the
sentence “The poor progression of OC is closely relevant to the negatively regulation of M2 macrophages polarization,…”.**

Response: Thank you for your well advice. We have rephrased the sentence as you support.