

**All changes have been marked in yellow highlight.**

**Because language grade is B and B, the full text was re-edited by AJE. (This certificate was issued on May 12, 2020 and may be verified on the AJE website using the verification code 55E8-DEEF-6AE6-B28F-79A4)**

Reviewer 1: As review paper, it seems acceptable for publication. However, the authors are encouraged to provide more illustration for the readership.

**Authors:** At the beginning of each topic, we added some transitional sentences and clarified some basic concepts. This makes it easier for readers to understand.

Reviewer 2: This manuscript reviews the research progress on the use of stem cells as a male fertility preservation technique. The relationship of the different cells involved in spermatogenesis is addressed to understand the cross talk among them, so scientists can improve tissue culture techniques to differentiate mature spermatozoa, using both 2D and 3D tissue cultures. A few comments to be taken into account to improve the quality of the manuscript.

1. Abstract section. A final conclusion is missing.

**Authors:** We added conclusion part in abstract section.

2. Introduction section. The sentence "tumour have become younger", This sentence can be improved as: patients with tumors ...

**Authors:** We reorganized the sentences according to reviewer opinion.

3. Current strategies for male fertility preservation section. The two first paragraphs start by the same sentence "At present the most acceptable...". Change one of them so not be repetitive.

**Authors:** We reorganized the sentences according to reviewer opinion.

4. Testicular organoid section. At the end of paragraph number 2 meiosis is repeated twice, and I am pretty sure the authors mean "... decreasing germ cells after mitosis and meiosis". Also, in the 5th paragraph PLGA description is full of squares, format error.

**Authors:** We reorganized the sentences according to reviewer opinion.

5. The role of other stem cells in male fertility preservation. First paragraph after referring to references 142-145 when saying "Therefore the question of whether stem cells cultured with SSCs can produce useful...", do you think stem cells should be replaced by MSCs?

**Authors:** We added our opinion after the sentences "Therefore the question of whether stem cells cultured with SSCs can produce useful...". (The high self-renewal capacity, multilineage differentiation potential and immunomodulatory properties of MSCs make them an attractive tool for research and clinical applications[149]. Other stem cells may also have great application potential, but this hypothesis needs to be supported by further experimental evidence.)

6. The role of other stem cells in male fertility preservation. In the fourth line, EVs should be defined

**Authors:** We defined EVs, and clarified some basic concepts.