Reviewer's report

Title: Gene Therapy for Cardiovascular Disease Mediated by Ultrasound and Microbubbles

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Reviewer: Yi-Xiang Wang

Reviewer's report:

This review covers an emerging application of ultrasound technology and, therefore, is of interest to the scientific community. Overall, the manuscript is clearly written and subjects are efficiently organized in the several sections.

1. The authors may also discuss the limitation of UTMD, particularly how some of the experimental studies can be translated to real clinical applications.

2. The authors need to go through all the cited pictures, consider the words limit and chose the representative pictures.

3. The authors need to check the spelling and grammar carefully, provide full names when abbreviations is firstly introduced.

4. Page 3 "Nonviral systems is consist of chemical methods…protein (EGFP) plasmids could be delivered effectively into rabbit Achilles tendons by UTMD, causing no obvious injury ". As the purpose of this paragraph is to introduce the " Current Status of Gene therapy of Cardiovascular Disease ", it is necessary to cite some examples regarding nonviral systems related to cardiovascular disease.

5. Page 4, the introduction of " Mechanisms of UTMD in Gene Therapy" is not comprehensive, because the paper describe the mechanism as "Meanwhile, the destruction of MBs may transiently induce cell membrane penetrability to transfer drug the author better introduce it.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

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'