Reviewer’s report

Title: Cellular immunotherapy using irradiated lung cancer cell vaccine co-expressing GM-CSF and IL-18 can induce significant antitumor effects

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Reviewer: cheng guo

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The manuscript examines how using combination of IL-18 and GM-CSF gene to modify tumor cell vaccine inhibits tumor growth in vivo. It finds that it is mediated though CD4+, CD8+ T lymphocyte and this vaccine induces greater infiltration of spleen cells and higher production of IFN-#. The study is solid, with important new findings well supported and the manuscript is well written. There are, however several points that need to be addressed, as indicated:

Minor Essential Revisions

1. In background section, authors showed that IL-18 and GM-CSF had anti-tumor effects, why the cell viability didn't have any change after LL/2 cells transfected with IL-18 and GM-CSF plasmids (24h – 72h)?

2. Authors showed that transfected LL/2 cells were irradiated with a sublethaldose X ray (100Gy) to prepare vaccines, why the X ray dose was 100Gy? How about the other dose?

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

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have on competing interests