Reviewer's report

Title: Molecular Signaling Pathways Mediating Osteoclastogenesis Induced by Prostate Cancer Cells

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Reviewer: Zoran Culig

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It is known that prostate cancer cells cause mixed osteoblastic and osteolytic responses. The role of RANKL in this process has been investigated by others. Some of the present results related to RANKL dependent mechanisms differ from those previous ones. The experiments were performed according to established standards. There is a novel aspect showing the role of Nuclear factor of activated t cells in osteoclastogenesis.

Minor suggestions:

1. the manuscript could be shortened in the part related to previous RANKL studies (Figure 1,2).
2. the authors may comment on previous papers showing inhibition of osteoblastic activity by TGF-beta inhibition and RANKL targeting in osteolytic lesions (Mishra et al: Prostate 71:1441, Virk et al: Bone 44:160).

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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 interest.