Reviewer's report

Title: Stable Alterations of CD44 Isoform Expression in Prostate Cancer Cells Decrease Invasion and Growth and Alter Ligand Binding and Chemosensitivity

Version: 1 Date: 30 October 2009

Reviewer: Venki Subramaniam

Reviewer's report:

Minor essential revisions:
1. The legends for each of the figures should include a title that aptly summarizes/concludes the data presented rather than restating the results section.
2. Author should mention what TX means in the legend. It can be confusing for the reader.
3. In order to maintain continuity and less confusion, authors should use the same shading pattern as in figure 3 for figures 4 and 5 and 6
4. What is the rational for choosing PC-3 prostate cancer cells? As most PC-3 are AR negative, could androgen ablation play a role in the causative effects observed in this study?
5. In the discussion the author draws a conclusion by wrong comparison-“Growth in vitro, and to a lesser extent, soft agar colony formation, were inhibited more effectively by CD44s-Separate than any other treatment. This effect of CD44s was also described in colon cancer cells[15]”… The CD44 is anti apoptotic (pro growth) in colon cancer cells promoting migration and invasion where as an opposite effect is perceived in prostate cancer and also the result of this study. The authors need to clarify on this or delete this reference.
6. Is the data shown in figure 7 with respect to docetaxel for PC-3M CDv7-10 RNAi statstically significant when compared to the controls? If so it has to be clearly stated and depicted.

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

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 interests