Reviewer's report

Title: Therapeutic effect of intravesical administration of paclitaxel solubilized with poly(2-methacryloyloxyethyl phosphorylcholine-co-n-butyl methacrylate) in an orthotopic bladder cancer model

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Reviewer: Timothy L Ratliff

Reviewer's report:

In this manuscript the authors evaluate the effects of the intravesical instillation of paclitaxel in combination with the water-soluble amphiphilic polymer composed of PMB30W and n-butyl methacrylate. The studies were performed in a murine MBT-2 orthotopic model.

1. The authors address an important question in non-muscle invasive bladder cancer therapy. New approaches are needed in the studies performed in this preclinical model system are a first step in moving toward validation of new therapeutics for non-muscle invasive bladder cancer.

2. The data are intriguing that additional information is needed to confirm what this reviewer perceives to be preliminary observations. It is important for the authors to define the number of experiments and the reproducibility of the data that are presented in figures 1 through 3. The data should be reproducible in at least 3 independent experiments.

3. The data shown in figure 3 should be evaluated for impact on antitumor activity. The concentration of drug delivered should be correlated with tumor size to determine if there is a direct relationship between drug delivery and the antitumor response.

4. It also will be important to establish the reproducibility of drug incorporation in the mixture. Data should be provided to demonstrate that separate lots are comparable.

One small editorial note - Cremophor is abbreviated PTX–Cre. This abbreviation should be modified as it contains the abbreviation (Cre) that designates an enzyme used in lox P systems to genetically modify gene expression.

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:
no conflicts