Reviewer's report

Title: Anti-oncogenic and Pro-differentiation Effects of Clorgyline, a Monoamine oxidase A Inhibitor, on High Grade Prostate Cancer Cells

Version: 3 Date: 15 May 2009

Reviewer: audrey player

Reviewer's report:

MINOR:
1. page 7, In the "METHODS-cDNA Microarray" section... Statement was "cDNA probes were prepared from 50-70mg "? Please confirm as this seems extraordinarily high. Normally microgram quantities are applied to the array. the concentrations refer to the total amount used for the entire study?

2. page 8 In the "METHODS-Quantitative Real time " section... the authors note "Transcript levels of GAPDH were assayed simultaneously with each of the following ten genes as an internal control to normalize transcript levels in control and treated cells". More genes were included after the revision.

3. page 16 " Clorgyline induces differentiation...." Address / note , briefly, the fact that EZH2 is not observed as differentially expressed on the microarray? here or in discussion.

4. page 17-18. " Validation of the effects of clorgyline using E-CA-90" ...EZH2 and other Polycomb genes represented (i.e., differentially expressed) in the E-CA-90? Please address in the text.

DISCRETIONARY:
1. page 8 " METHODS- Quantitative Real time..."...Chart of primers to make it easier for the readers, possibly supplemental. Currently primers are listed in the text. there are many and its a bit hard to follow.

Comment to the authors:
1. It would be interesting to examine the E-CA-90 via microarray and determine precisely how many of the 156 genes are represented.

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 interests