**Author's response to reviews**

**Title:** Neural protein gamma-synuclein interacting with androgen receptor promotes human prostate cancer progression

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**Author's response to reviews:** see over
Dear Dr. Chap

Thank you very much for your letter of November 12, 2012, concerning our manuscript entitled “Neural protein gamma-synuclein interacting with androgen receptor promotes human prostate cancer progression” (manuscript number: 1116962922695619).

Thank for your interest in our work and patient comment again. We appreciate the reviewers’ comments and have revised our manuscript accordingly. For point-by-point responses to the reviewers’ comments, please see the letter to the reviewer on the subsequent pages. We believe that the revised manuscript is now ready for your further consideration for publication in *BMC Cancer*.

We look forward to hearing from you at your earliest convenience.

Yours sincerely,

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Comments from Prof Labrie:

1 - The authors have provided data confirming an increase in SNCG protein levels in transfected cells (Suppl. Fig. 7). However, the protein levels were not quantified and, at least visually, the increase in protein levels is not particularly impressive. This may be because the blot was overexposed, making it difficult to detect differences in protein abundance.

The SNCG protein levels in different time point seems not particularly impressive, but the difference of their relative absorbance value was statistically significant (not provided in the second revise). After repeated experiments again we can provide you the result with more visual difference in supple.Fig.7.

2 - The authors have provided convincing evidence showing a time-dependent decrease in SNCG protein in siRNA-transfected cells (Suppl. Fig. 7).

3 - The authors provide data showing that LNCaP-AI cells contain higher levels of AR mRNA (Suppl. Fig. 4). The authors should note that the band appearing on the western blot is labelled 'SNCG', not 'AR'. This difference remains unquantified in the body of the paper.

Thanks for your carefulness. It was our mistake in the second revise. The AR protein levels were quantified by relative absorbance value (Suppl. Fig.4).

4 - The authors responded that they used multiple independent clones without stating if the results were reproducible.

All of the experiments were performed three times and the results were reproducible. We have added the stating in the manuscript.

5 - The authors have standardized the figure legends but these remain interpretive
rather than descriptive.

We have modified the figure legends in the revised manuscript, especially the Fig 3 and Fig 4 referred in the second review.

In sum, although the authors' replies are not entirely satisfactory, the authors have provided important controls and the report is interesting enough to warrant acceptance.