Reviewer's report

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

Version: 5 Date: 7 November 2012

Reviewer: Claude Labrie

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Here is my review of Dr. Chen's response to the previous review:

1 - The authors have provided data confirming an increase in SNCG protein levels in transfected cells (Suppl. Fig. 5). 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.

2 - The authors have provided convincing evidence showing a time-dependent decrease in SNCG protein in siRNA-transfected cells (Suppl. Fig. 5).

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.

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

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

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.