Reviewer's report

Title: Integrated Sequence And Expression Analysis Of Ovarian Cancer Structural Variants Underscores The Importance Of Gene-Fusion Regulation

Version: 2 Date: 2 June 2015

Reviewer: Kalpana Kannan

Reviewer's report:

Major Compulsory Revisions

1. This manuscript is exhaustive in reporting of the results obtained following combined DNA sequencing and transcriptional profiling of six ovarian cancer patient samples. However, the conclusions have been overstated both in the abstract section as well as at the end of the discussion. These conclusions do not follow from the work presented. Therefore, they need to be changed to those that follow from the results.

2. Page 14: "All 8 coding gene fusions detected by RNA-seq were somatically derived". This line seems to be out of context as these 8 gene fusions have not been mentioned previously. Could you add in a few lines to describe how your analyses resulted in 8 gene fusions?

Minor Essential Revisions

1. Remove hyphen from the following: gene-fusion, inter-genic, intra-genic.

2. Page 9: Please replace "2X" with "twice".

3. Page 17: un-nnotated should read as "unannotated".

Discretionary Revisions

1. Was there any criterion in choosing these six patients or are there any similarities in the genetic background of these six patients such as BRCA1 mutations. If so, this information would be important to include.

2. Did you discover any hotspots for SVs in these six ovarian cancer patient samples. If so, this would be important information to include.

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.