Reviewer's report

Title: Androgen receptor expression predicts survival in advanced breast cancer: the role of genetic and epigenetic events

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Reviewer: Antonino Belfiore

Reviewer's report:

The Authors have determined androgen receptor (AR) by IHC in a cohort of 73 Grade III invasive breast ductal adenocarcinomas and found that AR is expressed in 56% of tumors and expression is inversely associated with 10 year survival. In search of a mechanism responsible for the regulation of AR in breast cancer, they have investigated the methylation state of the AR promoter, mutations at the promoter 5'UTR and the possible effect of miR-124. None of these mechanisms, however, explained the differential regulation of AR in primary breast cancers.

Discretionary Revisions
1) In order to strengthen your findings I would suggest to validate AR IHC analysis by western blotting.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

NO