Reviewer's report

Title: Genome-wide analysis of three-way interplay between gene expression, cancer cell invasion and anti-cancer compound sensitivity

Version: 6 Date: 5 December 2012

Reviewer: Avrum Spira

Reviewer's report:

The authors have addressed many of the concerns and the manuscript has been significantly improved. Some additional minor changes are needed:

1. The authors responded that estimated the statistical FDR for the 633 invasion genes is about 0.08. How was the FDR determined? This result and methods should be included in the body of the manuscript.

2. The authors acknowledge that their 8 gene biomarker cannot accurately classify cell lines into resistant vs. sensitive. This negative result should be included in the results section and the authors should add to the discussion section why their biomarker did not work in that setting.

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