Reviewer’s report

Title: Integrated mutation, copy number and expression profiling in resectable non-small cell lung cancer

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Reviewer: Maria Fälth Savitski

Reviewer’s report:

The authors use integration of mutations, copy number variations and expression profiling to identify genes involved in the pathogenesis of non-small cell lung cancer (NSCLC). NSCLC is one of the most common causes of cancer related deaths in the Western world. The authors have identified a gene signature that can distinguish between metastatic and non-metastatic tumors, which they also validated on an independent data set. This is valuable findings that can lead to novel treatments for NSCLC patients.

I have some statistical issues that the authors must address before publication.

Major revisions

1) When identifying differentially expressed genes, is the p-value corrected for multiple testing? If not, that should be done.

2) The authors should better explain how the integration of the genomic and transcriptional profiles are performed. A paragraph about that should be added to the Methods part.

Minor revisions

1) In some of the headings the word correlation is used in wrong way. The authors should consider to change the word correlation into for example relation or association, because no correlation analysis have been used.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests