Reviewer's report

Title: The database of chromosome imbalance regions and genes resided in lung cancer from Asian and Caucasian identified by array-comparative genomic hybridization

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Reviewer: Kou-Juey Wu

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The manuscript tried to determine the copy number alteration (CNA) using array-CGH to analyze lung cancer patient samples from Asian and Caucasian groups.

1. It is surprising that only 20 Caucasian patient samples would yield consistent results which partially overlapped with the results from Asian patient samples since 20 is the borderline number which can generate significant statistical results. More Caucasian samples (at least 5) may be required to add to this significance. The alternative approach is to confirm the identified regions in more Caucasian patient DNA samples.

2. The difference in chromosome imbalance regions could be obtained by either categorizing through ADC vs. SCC or late stage vs. early stage. It will be interesting to further analyze and pinpoint the regions that represent late stage in both ethnic types of lung cancer patients.

3. The persons performing the analysis should be mentioned in the Method section, not in the results section.

4. The discussion section mentioned that two different groups of genes were altered in lung cancer patients including ion transport and chromatin remodeling. However, none of the genes tested belonged to these two groups. Testing one of the groups (e.g. genes in the chromatin remodeling group) is recommended to correlate with the observation in the manuscript.

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:

I declare that I have no competing interests.