Reviewer’s report

Title: Genes CEP55, FOXD3, FOXF2, GNAO1, GRIA4, and KCNA5 as potential diagnostic biomarkers in colorectal cancer

Version: 0 Date: 10 Feb 2019

Reviewer: Seong Soo A An

Reviewer's report:

The manuscript mainly focused on 2 parts:

6 genes were identified for methylation clusters with mutation status of CRC: CEP55, FOXD3, FOXF2, GNAO1, GRIA4, KCNA5.

These 6 genes could be the potential CRC biomarkers.

Authors used two methods: Bioinformatics analysis & Experimental validation.

Their sample size were as following,

Tumor samples: 115 sample were used for methylation and 25 samples for gene expression.

Normal sample for methylation data: 45

Normal sample for gene expression dataset: 51

Authors used 2 pipelines,

MuTect from the Broad Institute for the reliable and accurate identification of somatic point mutations in next generation sequencing data of cancer genomes.

But, I could not find any information on V2 pipeline.

Overall, authors performed extensive analyses and results and conclusions were sound.

However, the English was poor with wrong verb tenses, punctuations, and run-on sentences with poor transitions between paragraphs.

This manuscript need extensive grammar corrections.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Not suitable for publication unless extensively edited

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None.

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