Reviewer’s report

Title: Comparative analysis of histologically classified oligodendrogliomas reveals characteristic molecular differences between subgroups

Version: 2 Date: 02 Feb 2018

Reviewer: Laila M Poisson

Reviewer's report:

The new focus on the oligodendrogial histology has improved the clarity of the paper. It reads well. The HOX/SOX data are interesting to consider, though I question whether it is as simple as SOX on and HOX off in IDH-codel. It is also interesting to consider how the 7a10d group might fall in the WHO2016 diagnosis classes (astro vs gbm). If you are interested, there are datafiles from TCGA that indicate %necrosis in the submitted specimen. The one item to fix before publication is still the survival analysis. The TCGA enrollment form survival data cannot be used without integrating the follow-up files. The May 2016 enrollment file data was shared to exemplify the error made in a previous version of the manuscript. The follow-up files are required to use these data. For a quick fix, please use the Cell 2016 supplemental table 1 survival information, which has been correctly derived from the raw enrollment and follow-up data forms.

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?
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Yes

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

Yes

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I am able to assess the statistics

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