Reviewer’s report

Title: Targeted next-generation sequencing identifies novel variants in candidate genes for Parkinson’s disease in Black South African and Nigerian patients

Version: 1 Date: 05 Oct 2019

Reviewer: Mathias Toft

Reviewer's report:

The revised manuscript has improved substantially from the previous submission and now reads well.

I have only one minor comment: In my previous review of the paper I mentioned a lack of clarity about the aims of the study. The manuscript now includes a statement about this at the end of the introduction: «The primary goals of the present study was to use this panel to determine whether a common pathogenic mutation was present, and to characterise the genetic variation in known and novel PD genes, in a group of Black South African and Nigerian PD patients." In my opinion also the abstract would prefer from a similar statement and a statement of the results of this. It could also be considered to remove some of the rather technical statements about variant filtering etc from the abstract to make it more readable to a broader audience.

Other than this the paper is fine and I support the publication of this rare report of a genetic study from Africa.

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.

No

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 am able to assess the statistics

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

Acceptable

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