Reviewer’s report

Title: A systematic review and integrative approach to decode the common molecular link between levodopa response and Parkinson's disease

Version: 0 Date: 15 May 2017

Reviewer: Mara Hutz

Reviewer's report:

This manuscript by Guin et al presents the results of a study that aims to disclose an integrative approach between levodopa response and Parkinson's disease susceptibility. The structure of the manuscript is organized, clear, and easy to follow. All the important aspects and literature are included and the methods and results are nicely presented.

However, I have also some comments and suggestions that, if considered, in my opinion they would help to improve the quality of the manuscript:

1- All Tables should be careful reviewed. I checked the original papers from some studies that have their data on the tables presented but, they do not match.

2- The criteria to choose results from the original works are not clear when univariate and multivariate analyses are presented.

3- The limitations of the study should be discussed in the Discussion section

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.

Unable to assess

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

No

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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