Reviewer's report

Title: Reintroducing testosterone in the db/db mouse partially restores normal glucose metabolism and insulin resistance in a leptin-independent manner

Version: 1 Date: 20 Mar 2018

Reviewer: Rowan Hardy

Reviewer's report:
The authors have made a reasonable effort to address the original concerns raised. However, there are a couple of notable omissions still outstanding. The authors should address these prior to submission

Minor corrections
"Please provide details on power calculations for animal experiments. ANOVA where applicable: give details of post hoc test. Are all data normally distributed?
Response: We revised the manuscript in accordance with your comments (Methods section, line 26, page 15)."
The power calculations still appear to be omitted. Please include

"Fig3a: Magnification does not look completely comparable across all groups and staining intensity appears different in castration testosterone supplemented group. Please include further supplementary representative images to better validate these representative images.
Response: We added supplementary images (liver) and revised the manuscript in accordance with your comments (Figure 3a and its legend section)."
The liver figures referred to as supplementary to not appear in this version of the manuscripts supplementary file link. Assuming this is accidental, these need to be included
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 am able to assess the statistics

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

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

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