Reviewer’s report

Title: Exercise and Resveratrol Increase Fracture Resistance in the 3xTg-AD Mouse Model of Alzheimer’s Disease

Version: 1 Date: 02 Nov 2018

Reviewer: Fangxia Guan

Reviewer's report:

Review comments

In this manuscript, Alkhouli et al. investigated whether treatment with resveratrol or (and) exercise could improve fracture resistance in an AD mouse model. The authors report that treatment with resveratrol or (and) exercise improves fracture resistance and cross-sectional geometric indicators of bone strength.

I have the flowing concerns.

1. There are some mistakes in the manuscript, especially in the title.

2. As reported, whether exercise had beneficial effects on AD was controversial, because treadmill running is a forced exercise. In the manuscript, there was no control group for exercise group. So, I want to understand the detailed exercise procedure of mice in the exercise group.

3. It's not clear how did the authors choose the dosage of resveratrol.

Are the methods appropriate and well described?

If not, please specify what is required in your comments to the authors.

Unable to assess

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.

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:

Needs some language corrections before being published

**Declaration of competing interests**

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

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