Reviewer's report

Title: Effects of Rhodiola Crenulata on Mice Hearts under Severe Sleep Apnea

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Reviewer: Jiann-Ruey Ruey Hong

Reviewer's report:

The authors that are described Rhodiola Crenulata (RC) 40 treatment can protect the mice hearts with severe sleep apnea model under hypoxia. They are proposed that under hypoxia can induce either Fas-mediated or mitochondria-mediated cell death pathway. Then, with Rhodiola Crenulata (RC) 40 treatment can regulate those two death signals, is interesting. Some mild comments as follows.

1. In Results, from Fig.1 to Fig 5 in the quantification results such as TUNEL positive-cells should be mention about 4% (hypoxia group) than others lower (1%) in Rhodiola Crenulata (RC) 40 treatment groups for more clear.

2. The some compounds should be defined such as RC90 and RC270 in Materials and Methods.

3. In the results (in Fig. 4), by western blot analysis to probe caspase-9, -8 and -3 cleaved forms that should be label in Fig. 4A.

4. In unit using should be checked such as “Rhodiola Crenulata at 90mg/Kg and 270 mg/Kg have protective effects on” that may consider as 90 mg/Kg and 270 mg/Kg for more consistent throughout this manuscript.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

No.