Reviewer's report

Title: Phytochemical profiling and in vitro screening for anticholinesterase, antioxidant, antiglucosidase and neuroprotective effect of three traditional medicinal plants for Alzheimer's Disease and Diabetes Mellitus dual therapy

Version: 1 Date: 03 Jul 2017

Reviewer: Shih-Shun Chen

Reviewer's report:
Comments for BCAM-D-17-00586R1
The aim of this manuscript was to examine the inhibitory effects of the methanolic extracts and derived fractions of three traditional medicinal plants (BAM, HIM, and RMM) on acetylcholinesterase (AChE), butrylcholinesterase, glucosidase, and anti-oxidants in human neuroblastoma SK N SH cell line. The outcome was favorable. However, there are still some concerns in the manuscript that need to be addressed.

Major points
1. The authors need to explain the rational of using human neuroblastoma SK N SH cell line as a model for the therapeutic actions of anti-AD and -T2D. Pertinent references for above should be cited on background.
2. What is control used for the experimental studies?
3. They mainly based on the results of in vitro human neuroblastoma cell line model to evaluate the neuroprotective and anti-glucosidase and -oxidants effects of methanolic extracts and derived fractions of three traditional medicinal plants. The authors should be verified with animal model experiments to confirm the author's observations in human neuroblastoma SK N SH cell line.

Minor points
1. The figure legends should be rearranged by giving more written information in the text.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.
No

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.
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:
Needs some language corrections before being published

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No

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