Reviewer’s report

Title: Anti-Neuroinflammatory Effects Of The Extract Of Achillea fragrantissima

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Reviewer: Tong H Joh

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The authors showed that an ethanolic Af extract has anti-inflammatory effects on LPS-activated microglial cells without a cytotoxic effect of the extract, and claim that the extract could be beneficial in preventing/treating neurodegenerative diseases in which neuroinflammation is part of the pathophysiology.

Experimental design was simple, data are convincingly presented, and the summary of the results is agreeable. However, their conclusion is premature. Since there is no single experimental result showing Af extract has anti-inflammatory effects in the central nervous system, it is difficult to accept their conclusion that says the extract may prevent or treat neurodegenerative diseases without showing it works in the brain.

LPS can be injected into the brain, such places like the sustantia migra, and test whether the extract prevents generation of inflammatory factors, proteins, etc.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests' below.