Reviewer’s report

Title: In vitro antibacterial and antibiotic modifying activity of crude extract, fractions and 3’,4’,7-trihydroxyflavone from Myristica fragrans Houtt against MDR Gram-negative enteric bacteria.

Version: 2 Date: 24 Nov 2017

Reviewer: Angel Alex

Reviewer’s report:

Abstract

* Last sentence of the result: The compound 3’,4’,7-trihydroxyflavone potentiated the activity of antibiotics in the majority of the tested bacterial strains.----correct 'antivity' as activity

Conclusion:

* The results of the present work provide additionnal information.........correct 'additionnal' as additional

Background

* In our continous search for botanicals and phytochemicals to manage bacterial infections involving MDR Gram-negative bacteria----correct 'continous' as continuous; 'Gram negatif' to 'Gram negative'

* Methanol extract from this spice caused cell death of jurkat leukemia T cell line by a mechanism involving SIRT 1 mRNA downregulation [11] and anti-cariogenic activity [12].---cariogenic or carcinogenic? Since the previous point talks about anticancer property, how cariogenic?

Methods:

* Under the heading Microbial strains and culture media: Providenciastuartii .. correct as Providencia stuartii

* General procedure: the purpose of the techniques mentioned have to be stated.

* The identification of plant was done at……Plant or seed?

* The powder seeds of M. frangrans……powdered seeds
These fractions were submitted first to antibacterial test against selected strains.... Which are the selected strains? What was the rationale for selection?

Results:

Also, the 3',4',7-trihydroxyflavone improved the activity of tetracycline.... correct as 3',4',7-trihydroxyflavone improved

Q1. Research have already been published on the antibacterial properties of extracts and fractions of nutmeg, where the authors have extracted the seeds with acetone, ethanol, methanol, butanol and water. Their study showed that the acetone fraction showed antibacterial property. Gupta AD et al., Chemistry, antioxidant and antimicrobial potential of nutmeg (Myristica fragrans Houtt) Journal of Genetic Engineering and Biotechnology (2013) 11, 25-31. What is the rationale of choosing methanol extract to study the antibacterial property against MDR Gram negative strains?

Check spellings: eg- antibacterial, fractionation, antibacterians

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:

Needs some language corrections before being published

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