Reviewer’s report

Title: Phytochemical, In-Vitro Biological and Chemo-preventive Profiling of Arisaema jacquemontii Blume Tuber Extracts

Version: 0 Date: 31 Mar 2019

Reviewer: Irshad Ahmad

Reviewer's report:

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Moderate revisions are needed to be addressed in the manuscript:

1. The authors have clearly indicated that the methanolic and ethanolic extract of A. jacquemontii tuber have high antioxidant potential and radical scavenging activity against various antioxidant systems in-vitro models. Did the authors have checked its antioxidant and radical scavenging potential in the in-vivo study? Will they be able to use the phytochemicals of this plant for clinical trials on some model organisms?

2. Plant phytochemistry is missing. Can the authors provide a preliminary HPLC or GC-MS.

3. In the abstract, rephrase the first sentence, expand methods section and add details. Don't use vogue terms. Rephrase results in more scientific way. Conclusion is absolutely inappropriate. Revise it!

4. In the introduction section, add a paragraph on the emergence of antibiotic resistance and need for the development of alternative agents from plants. Kindly refer to these articles and cite them
   1). https://europepmc.org/abstract/med/27814643,

5. The authors have shown some antimicrobial activities of A. jacquemontii in Table 2 and 3. They have to provide some clear photos of the strains grown on media plates showing inhibition zones.

6. Add complete source of chemicals used in the study with CAT no. Add source of microbes, their susceptibility pattern to normal antibiotics. Add source of Leishmania tropica.

7. Add snaps of cell lines before and after treatment as well as Leishmania promistigotes pre-and post-therapy.
8. The discussion section of the manuscript is poorly written and not well organized. The authors have to portray and compare their results with recently published articles in the same area. They have to reorganize the complete discussion section.

9. In the reference section maximum of the references are very old. The authors have to include some current literature in the revised version.

10. There are numerous grammatical mistakes throughout the manuscript. The authors have to thoroughly check their manuscript to remove these mistakes. Language edit the manuscript via an expert.

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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