Reviewer's report

Title: Evaluation of Phytochemical content, antimicrobial, cytotoxic and antitumor activities of extract from Rumex hastatus D.Don roots

Version: 2

Date: 22 April 2015

Reviewer: Jean-de-Dieu TAMOKOU

Reviewer's report:

Title: Evaluation of Phytochemical content, antimicrobial, cytotoxic and antitumor activities of extract from Rumex hastatus D.Don roots.

The manuscript reports the phytochemical analysis, antimicrobial, antitumor and cytotoxic activities of extracts from R. hastatus roots. There is potential for further chemistry work with respect to isolation and identification of bioactive compounds that are effective against cancer and pathogenic bacteria and fungi.

Specific suggestions are as follows:

1) There is much literature on Rumex sp. that should help the authors in writing the background and discussion section for their work.

2) The authors should also give relationship about traditional usage and the results.

3) There are some typographical errors throughout the manuscript.

4) Line 103: Objectives have been poorly written.

5) Phytochemical analysis: Can the authors summarize this section with appropriate references?

6) Authors should amend their manuscript to state the origin of microbial strains, erythromycin, nalidixic acid and DMSO.

7) The positive controls should be specified and included in the cytotoxic and antitumor tests.

8) Results and Discussion: The authors need to scientifically present and discuss this section.

9) The conclusion should be revised to make it more professional and to summarize it.

10) The statistical analysis should be included in tables 3, 4 and 5.

11) Please ensure that your tables are correctly formatted in accordance with the formatting guidelines of the Journal.

(http://www.biomedcentral.com/bmccomplementalternmed/authors/instructions/researcharticle#preparing-tables).

Specifically, tables should have a title (above the table) that summarizes the whole table; it should be no longer than 15 words.

12) Please correct the typographical errors throughout the manuscript.
Best wishes,
Jean-De-Dieu TAMOKOU, Ph.D

**Level of interest:** An article whose findings are important to those with closely related research interests

**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:**
I declare that I have no competing interests