Reviewer's report

**Title:** Cytotoxicity of Selected Cameroonian Medicinal Plant and Nauclea pobeguinii Towards Multi-Factorial Drug-Resistant Cancer Cells

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**Reviewer:** Mahmoud El-Readi

**Reviewer's report:**

The manuscript entitles “Cytotoxicity of Selected Cameroonian Medicinal Plant and Nauclea pobeguinii Towards Multi-Factorial Drug-Resistant Cancer Cells” is good written and suitable to publications after cover the following concerns:

**Major**

- More details about the protocol of cytotoxicity assay should be added to the methods section, especially the protocol of suspended cell lines such as leukemia cells.
- The authors mentioned that CEM/ADR5000 cells and MDA-MB231/BCRP are resistant cells lines, Are there any evident or experiments (e.g. PCR or WB) were done to confirm this information?
- In chemicals section, 2 chemicals vinblastine and geneticin are mentioned, while I did not found their roles through the manuscript. Please write their application in the methods sections, otherwise the authors can delete it.
- The authors used Adriamycin (specific P-gp substrate) as positive control to compare the cytotoxic effect of extracts and isolated compounds. This is ideal with CEM/ADR5000 while in other cells such as MDA-MB231/BCRP it is better if authors use specific BCRP substrate as positive control other than doxorubicin.
- The IC50 values of all tested samples against HepG-2 and normal hepatocytes as compare to other cell lines cause more conflict for me. Previously, I investigated all these cell lines before that and always I found that the IC50 values of our tested staff against resistant cell lines that highly expressed ABC transporters were higher than their IC50 values against HepG-2 !!!!!. Are there any explanations for that?
- In photochemistry part, I recommend to present all spectra data of isolated compounds in table to easily check it.
- The discussion of the cytotoxicity results of isolated compounds is not enough. The authors can discuss in more details the difference in effect of resveratrol and other compounds and between resveratrol and its glycoside according to the SAR.

**Level of interest:** An article of limited interest
Quality of written English: Acceptable

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