

**Review Form 1.7**

Journal Name:	<b>Journal of Pharmaceutical Research International</b>
Manuscript Number:	<b>Ms_JPRI_116130</b>
Title of the Manuscript:	<b>Qualitative Analysis on Anthelmintic Activity and In silico Screening of Breast Cancer by using Mimosa pudica Linn.</b>
Type of the Article	<b>Original Research Article</b>

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### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<ol style="list-style-type: none"> <li>1. The subject of this article is of vital interest, in that it deals with two diseases that affect many people around the world. Breast cancer is the most common cancer diagnosed in women, making it a public health problem in many countries. As for helminths, they cause a number of harmful effects in the body. So finding alternative therapies to curb these pernicious ailments would be a noble cause. For this reason, the authors of this manuscript focused on <i>Mimosa pudica</i>, a plant widely used to treat a number of illnesses in traditional medicine.</li> <li>2. The title needs to be revised. In the whole document, there is no mention of a quantitative study. I suggest instead: <b>"Phytochemical study, evaluation of antihelminthic potential and <i>in silico</i> screening for breast cancer using <i>Mimosa pudica</i> Linn. "</b></li> <li>3. Overall, the abstract of the article meets the requirements of scientific writing. However, the authors should make it easier to understand by trying to better situate the context of the study (establishment of a link between breast cancer and helminths). They should also give a few salient results and a conclusion at the end of the abstract.</li> <li>4. Overall, the subsections are well written. However, I would suggest that the authors:             <ol style="list-style-type: none"> <li>1. Include in the introduction the information contained in paragraph "2. PLANT PROFILE"</li> <li>2. Review the introduction in its entirety, as it does not provide any information on the motivations, objective, etc. of the project.</li> <li>3. The discussion of the results should be expanded, as it provides little information. It is also essential to give the references of the works cited in the text. For example: "<i>Alkaloids act on the CNS and cause paralysis in worms. Tannins interfere with worm energy production by uncoupling oxidative phosphorylation, then bind to free proteins in the small intestine and cause worm death</i>".</li> <li>4. Justify the choice and origin of the compounds used in the <i>in silico</i> screening. In addition, comment on and discuss the results obtained in the text.</li> <li>5. Check the information in Table 6 regarding the arrangement of the different extracts. In the same table, indicate the results obtained with the standard (Albendazole).</li> <li>6. Review certain references as they do not correspond to the information given in the article. For example, [1] refers to "<i>Helminth infections: the major neglected tropical diseases</i>" and not to "<i>Mimosa pudica</i>".</li> <li>7. Delete the results given in the methodology section "3.3 Phytochemical screening" (<i>The stock concentration ...Tannins, and Phenol [15].</i>) and really describe the procedures used to identify phytocomponents.</li> <li>8. In section "3. MATERIALS AND METHODS", add a paragraph on "3.2 Animal material". This paragraph should include a description of where the worms were collected.</li> <li>9. Mention the tables in the text to make them easier to understand. For example, "<i>The present study revealed the presence of phytochemicals such as alkaloids, tannins, flavonoids, phenols, etc.</i>".</li> <li>10. Establish the link between the different chemical methods used to identify plant compounds and highlight their contribution to the <i>in silico</i> approach.</li> <li>11. Avoid certain statements such as "<i>the most numerous phytochemical compounds...were found in the ethanolic extract</i>". In the absence of any assay, determining the extraction yield cannot be used to determine the content of a plant matrix.</li> <li>12. Compare its results concerning the evaluation of anthelmintic potential with those of Bendgude <i>et al</i> [8].</li> </ol> </li> </ol>	

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	5. The manuscript is scientifically correct. However, it needs to be structured (see comment above).  6. The references are more or less recent, with a tendency for 65.38% to be less than or equal to 10 years old. However, the addition of a few references to justify the results obtained will help to strengthen the quality of the manuscript.	
<b>Minor</b> REVISION comments  1. Is language/English quality of the article suitable for scholarly communications?	It is satisfactory.	
<b>Optional/General</b> comments		

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### **Reviewer Details:**

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