

## Review Form 1.6

Journal Name:	<a href="#">Journal of Pharmaceutical Research International</a>
Manuscript Number:	Ms_JPRI_76966
Title of the Manuscript:	ANTIMUTAGENIC ACTIVITY OF CASSIA AURICULATA LINFRACTIONS ALONG WITH ANTICANCER ACTIVITY
Type of the Article	Research article

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://peerreviewcentral.com/page/manuscript-withdrawal-policy>)

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**PART 1: Review Comments**

	<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)
<b>Compulsory</b> REVISION comments	<p><b>ABSTRACT...</b></p> <p>Background: the authors could provide some examples of the medicinal use of the plant.            Aim: is not clear and must include the objective of the research.            Methods: must be rewritten and resumed all part of the methods used.            Results: must be reformulated</p> <p><b>INTRODUCTION</b></p> <p>The objective is missing in this part and must be included.</p> <p><b>MATERIAL AND METHODS</b></p> <p><u>Material and reagent:</u> Describe the main chemicals used and its CAS and company name (Sigma...Merck...)</p> <p><u>Acute toxicity study:</u> why did the authors use male animals for this test?            why did the authors not use OECD guidelines 420 to perform the test?            The authors stated "The animals were separated into two groups..." These sentences must be corrected into: "the animals were divided into 2 groups of 3. Plant extracts solution were administered orally at the doses of..."</p> <p>The authors stated "Up to 36 hours, no detrimental effects or mouse death were found"            Pay attention, this statement is a result not a method. So I suggest: "all animals were then observed for morbidity and mortality"</p> <p><u>Chromosomal aberration assay:</u>            This must be re written clearly.            Was the extract vehicle distilled water? If so, write in the text.            Cite the method used there at the beginning of this paragraph</p> <p><u>Micronucleus assay</u></p> <p>Why the authors only choose one dose of extracts to perform this assay?            Dose and treatment:            "The bone marrow MN tests were performed on the same experimental animals" is not clear at all</p> <p>Important note: OECD 474 (2016) recommendation: Analysis, paragraphy 43. At least 4000 immature erythrocytes per animal should be scored for the incidence of micronucleated immature erythrocytes</p> <p><u>Anticancer activity:</u>            In the experimental design, there must be a normal control            Why no parameters as antioxidant, haematological ones not evaluated by authors?            Tumor Induction</p>	

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	<p>Is it different groups of 04 animals or 06 animals?  <u>Statistical analysis</u>: There is no information about it.</p> <p><b>RESULTS AND DISCUSSION</b></p> <p>The logical flow of results is too poor. They must be re-written          I suggest to delete Table 4          If it is possible, it is better to provide pictures such as break DNA , polychromatic erythrocyte, micronucleus ...          The discussion part should be enriched with publications that cover in-depth cyclophosphamide specifically and anticancers generally and state the other plants that their compound act</p>	
<p><b>Minor</b> REVISION comments</p>	<p>The manuscript should be revised intensively for linguistic, grammatical and style errors. The manuscript should be revised for proper use of abbreviations. The following are examples as it is very difficult to enlist all of them:          Cassia auriculata must be written to italic in the whole manuscript.          Utilizing must be corrected to using          Utilized to used...          Title must be reformulated.          I suggest : <b>Antimutagenic and Anticancer Activities of <i>Cassia Auriculata</i> Fractions</b></p>	
<p><b>Optional/General</b> comments</p>	<p><b>Keywords:</b>          I suggest : <i>Cassia Auriculata-fractions-cyclophosphamide-Genotoxic-anticancer</i></p> <p><b>CONCLUSION</b>          This part is too long and must be summarized</p>	

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><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)</p>
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p>	

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**Reviewer Details:**

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