



SDI Review Form 1.6

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| Journal Name: | <u>Journal of Cancer and Tumor International</u> |
| Manuscript Number: | Ms_JCTI_35217 |
| Title of the Manuscript: | Macroscopic & Microscopic molecular-associated treatments of Monosodium Glutamate-induced uterine fibroid via aqueous extract of ginger rhizomes: A study on adult female wistar rats |
| Type of the Article | Original 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://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

| | Reviewer's comment | Author's comment <i>(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)</i> |
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| Compulsory REVISION comments | <p>Abstract:</p> <ul style="list-style-type: none"> - Background: the authors defined what uterine fibroids are but did not justify the use of ginger or the aqueous extract of ginger to treat the aforesaid pathology in their study. Are there any non empirical data of ginger with respect to uterine fibroids? Is the aqueous extract of ginger endowed with scientific proven properties to suspect its probable effects on this disease? * "The present study ... and histologically": this sentence should be deleted from the background section and transferred to the study design or the methodology section. - Aim: delete "... as seen macroscopically and microscopically with underlying molecular consequences ...". - Study design: what do the authors mean by "experimental and statistical analysis" in this section? Authors should clearly indicate the disease model of animal and the treatment regimen they used. They should also indicate the parameters they assessed to evaluate the effects of their extract on uterine fibroids. - Methodology: is the prophylactic approach different from the protective approach? Authors should clearly and briefly report how they conducted the prophylactic approach and how they conducted the curative approach. Line 1: in this sentence, "Acclimatization lasted for 10 days ...", delete "for". Line 4: "Administration lasted for 50 days ...": delete "for". Line 7: "... to assay for MMP2": delete "for". - Results: "Results showed that ... completely mitigate these effects": this sentence is too long and not understandable!!! What results do the authors obtained? Did the MSG induce abnormal gross | |



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| | <p>morphology... or animals receiving MSG had gross morphology...? What do the authors mean by “the ginger extract completely mitigated the effects of MSG”? Did the ginger extract prevent the onset of uterine fibroids or did it decrease the volume of uterine fibroids?</p> <p>1. Introduction Too long!!! More than 4 pages!!!</p> <p>2. Material and methods 2.2 Procurement and administration of MSG: justify the dose of 900 mg/kg of MSG used to induce uterine fibroids. Provide references. 2.3 Procurement and administration of ginger extract: justify the different doses of the ginger extract you administered to animals. 2.4 Experimental animals' husbandry and design: Authors should provide the reference number of the Babcock University Health Research Ethics Committee approval. How did the authors manage hormonal changes due to estral cycle ? what was the estral phase of animals at the beginning of the study ? Table 1.1: what is the difference between group D and group E? Both groups were co-treated with MSG and the ginger extract at same doses. Moreover, prophylactic effects refer to protective or preventive effects. Following the first administration (MSG or ginger extract), after how long did you administer the ginger extract or MSG in group D and group E respectively? Did the authors have any reference of a scientific study reporting antagonism between MSG and the ginger extract? If there is no such a reference then both groups are the same and one should be deleted. For the curative approach, the group of animals receiving the ginger extract at the dose of 900 mg/kg is missing!!! For groups F and G, when talking about the administration of the ginger extract for 25 consecutive days, did the authors mean “25 supplement days”? The positive control group (animals receiving a reference substance) is missing! 2.5 Confirmation of the presence of uterine fibroids: How did you collect blood to determine estradiol and progesterone serum concentrations? If animals were sacrificed, why did you not measure uterine fibroids volume or weigh the uterus of animals with uterine</p> | |
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| | <p>fibroids to compare it with the uterus of normal or control animals? Did all animals develop uterine fibroids? What was the percentage of success? 2.7 Relative organ weight (row) and gross organ morphology : line 1 : what do the authors mean by “animals were measured”? do you mean “animals were weighed”? The subsection “Statistical analysis is missing”!!!</p> <p>3. Results</p> <p>3.1 Mean body weight: what do these data bring to you? You may determine weight gain/loss for each animal as follows: final body weight – initial body weight. There are no significant changes in body weight. What statistical analysis did you perform? You better use ANOVA one way followed by Tukey test for multiple comparisons.</p> <p>3.2 Relative organ weight: Fig. 1.1: instead of “... Relative organ weight...”, it should be written “... relative uterine weight...” On the Y axe, it should be written “Relative uterine weight (g)” and not “Weight (g)”.</p> <p>First paragraph: Lines 3-6: “Fibroids do not only ... with uterine fibroids”: these sentences should be reformulated! Lines 8 – 12: “Estradiol ... gene expression”: provide references. Lines 12 – 14: “this hyperplasia ...proliferation process of the uterus”: indicate the mechanism whereby MSG induces uterine fibroids.</p> <p>3.4.Histological analysis: Plate 1: there are no black arrows on photomicrographs. What does “P” mean? Plate 2: apoptotic bodies (B) and perimetrium (P) are not labelled/identified on photomicrographs. Results on histological analysis and MMP2 are not discussed!</p> <p>References</p> <p>They are not styled in the text and in the list of references according to the instructions to authors provided by the journal. May be I downloaded the wrong file. Authors should check it and follow the journal guidelines. Some of references are missing in the list of references!!!</p> | |
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| Minor REVISION comments | | |
| Optional/General comments | Authors should format their manuscript according to the journal instructions. | |

Reviewer Details:

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| Name: | <i>Marie Alfrede Mvondo</i> |
| Department, University & Country | <i>Department of Animal Biology, University of Dschang, Cameroon</i> |