

Review Form 1.6

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_88395
Title of the Manuscript:	ANTI-ULCER AND BLOOD-BOOSTING EFFECT OF DIET SUPPLEMENTED WITH DAEDALEA QUERCINA FROM OGBOMOSO, OYO STATE, SOUTH WEST OF NIGERIA ON INDOMETHACIN INDUCED GASTRIC ULCER IN RATS.
Type of the Article	Original Research Article

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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:

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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)
Compulsory REVISION comments	<p>Thirty-five male wistar rats (100-110g; n=7) were divided into five groups; 1- (non-ulcerated normal feed (CN)) 2- (ulcerated untreated feed (CU)), 3- (20 mg/kg cimetidine (Cm)), 4- (20% <i>Daedalea quercina</i> (Dq)) and 5- (40% <i>Daedalea quercina</i>) respectively for days 7 and 14 treatments were given treatments with indomethacin (40mg/kg/p.o). Individuals were sacrificed once they completed 4 h after ulceration. The stomach of everyone was separated and malondialdehyde, sulfhydryl, nitrile, mucin and H⁺/K⁺-ATPase Activity were quantified, as well as a histology of the stomach tissue. From the histology performed, no significant tissue damage was observed. Likewise, it is shown that the groups treated with <i>Daedalea quercina</i> had an effective anti-ulcer effect, through synergistic actions of mucin, nitrite, H⁺/K⁺-ATPase activity and pathways. antioxidants. On the other hand, they observed that the activities of nitrite, sulfhydryl and hydrogen peroxide contribute to the increase in blood in the observed tissues.</p>	<p>The comment of the reviewer was rightly put as : Fifty male wistar rats (100-110g; n=5) were divided into two sets of five groups respectively for days 7 and 14 treatments. Blood samples were collected on days 7 and 14 for full blood count. Gastric ulceration was induced in the rats using indomethacin (40 mg/kg p.o) after 24 hours fast on days 8 and 15. Animals were euthanised 4 hours after peroxide and H⁺/K⁺-ATPase. <i>Daedalea quercina</i> treatment groups demonstrated anti-ulcer and blood-boosting activities through the synergistic activities of increased nitrite and antioxidant pathways. ulceration, while stomachs were excised and analysed for malondialdehyde, sulfhydryl, nitrite, mucin and H⁺/K⁺-ATPase activity, using standard procedures while tissues from the stomach were harvested and processed for routine histology. Data were expressed as Mean ±SEM, analysed using analysis of variance (ANOVA) and p≤ 0.05 was significant. Haematological indicators were not significantly affected with the treatment. Significant differences were observed with nitric oxide, mucin, sulfhydryl, and hydrogen-</p>
Minor REVISION comments	<p>Introduction</p> <ol style="list-style-type: none"> 1. It is suggested to mention and detail the analyses for the determination of ulcers and their severities. 2. What are the specific compounds of the <i>Daedalea</i> fungus that they contain and that have the possibility of having anti-inflammatory activities and/or anti-ulcer effect? The data can be given of the fungus in other countries, it is suggested to do a search. <p>Materials and methods</p> <ol style="list-style-type: none"> 1. It is recommended to include in the tests the repetitions carried out. 2. If there were any controls in the trials, mention the conditions. 3 In the design of experiments, mention what type of design was applied if, it is multifactorial, or what it is. 4. In general, each method carried out is referenced and mentions the main characteristics to carry it out. <p>Results and discussions</p> <ol style="list-style-type: none"> 1. From table 4 it is mentioned that the polysaccharides of the fungus may be responsible, it only remains to specify precisely which are these polysaccharides that are found in <i>Daedalea</i>. 2. Figure 3. Mentioning that only with this test the prevention of the formation of free radicals is presumptuous, because in biological systems more than one test with different radicals is carried out to make such an assertion. It would be just leaving the expression based on the tests done. 3. In the results that mention a significant difference, it is recommended to say the more or the less 4. Both mucin and nitric oxide show a protective effect, it is recommended to expand the explanation of how this effect occurs since it is mentioned in a general way and the reactions that occur that allow the integrity of the intestinal mucosal membrane are not explained. 5. In figure 7 it could be mentioned which flavonoids are present in <i>Daedalea</i>, they may be responsible for the antioxidant properties 6. In table 6 it is mentioned that there is a concentration in the immunoregulatory properties of higher fungi, it is suggested to detail these properties so that the concept is clearer. 	<p>As suggested ,more research was done and added to the introductory part as highlighted</p> <p>All that were done were reported and referenced. Results were presented as Mean ± SEM, calculated with Graph Pad Prism 7.0 using Analysis of Variance (ANOVA) and significant at p = 0.05.</p> <p>Table 4 corrected and changed to phytochemicals</p> <p>My figures and results were appropriately reported as a microbiologist. Thank you.</p>
Optional/General comments	<p>All activities evaluated in the work should be mentioned in the summary and conclusions as a reference of what was done, since all of them together demonstrate the anti-ulcer effect.</p>	<p>These were done in summary form in the conclusion</p>

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PART 2:

	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)
Are there ethical issues in this manuscript?	<u>(If yes, Kindly please write down the ethical issues here in details)</u> Yes,the use of animals for the studies	The Animal Care and Use Research Ethical Committee (ACUREC), University of Ibadan, granted approval (Ref. No: UI- ACUREC/19/0039).