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Journal Name:	<u>International Journal of Biochemistry Research & Review</u>
Manuscript Number:	Ms_IJBCRR_29804
Title of the Manuscript:	EFFECT OF FERMENTATION ON PHYSICOCHEMICAL PROPERTIES AND IN-VITRO RADICAL SCAVENGING ABILITY OF Citrullus vulgaris
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 (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)
<u>Compulsory</u> REVISION comments	General comments: The manuscript titled “EFFECT OF FERMENTATION ON PHYSICOCHEMICAL PROPERTIES AND IN-VITRO RADICAL SCAVENGING ABILITY OF <i>Citrullus vulgaris</i>” presents data regarding the <i>Citrullus vulgaris</i> and its oily paste (Ogiri). This article/theme is appropriate for this journal audience. However, the manuscript is not entirely clear, and it needs some changes as well as the inclusion of other methods/tests in order to be accepted for publication. Major remarks: - The article title said “EFFECT OF FERMENTATION ON PHYSICOCHEMICAL PROPERTIES AND IN-VITRO RADICAL SCAVENGING ABILITY OF <i>Citrullus vulgaris</i>” and in abstract section is mentioned: “Both <i>Citrullus vulgaris</i> and Ogiri exhibited antioxidant efficacy”/”The Vitamins increased significantly which showed changes in the radical scavenging ability.”. However, neither	



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	material/methods section nor results section display these data. The content of vitamins, as showed in table 2, indicate the presence of compounds with arbitrary “potential” antioxidant activity in <i>Citrullus vulgaris</i> and Ogiri but it did not indicated antioxidant capacity of <i>Citrullus vulgaris</i> and Ogiri. For such finality, additional tests should be included, for example, DPPH assay and/or other tests of free-radical scavenging (Review: Alam MN, et al. Review on <i>in vivo</i> and <i>in vitro</i> methods evaluation of antioxidant activity. Saudi Pharmaceutical Journal (2013)21, 143–152). In sections, materials and methods and results, data should be included. The novel results must bring original insights on such property, since antioxidant activities of <i>Citrullus vulgaris</i> have already been described in literature (Atrooz OM. The antioxidant activity and polyphenolic contents of different plant seeds extracts. Pak J Biol Sci. 2009;12(15):1063-8 – Umar AK, et al. Antioxidant effect of <i>Citrullus vulgaris</i> (watermelon) extract against lipid oxidation in fish during cooking. Bayero Journal of Pure and Applied Sciences. 2014;7(2): DOI:10.4314/bajopas.v7i2.18). Also, a comparative study on <i>Citrullus vulgaris</i> for Ogiri production relating microbiological,	DPPH assay has been done on the work.
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	physicochemical, and antinutritional properties of <i>Citrullus vulgaris</i> and Ogiri have already been related (Review: Akinyele and Oloruntoba. Comparative Studies on <i>Citrullus vulgaris</i>, <i>Citrullus colocynthis</i> and <i>Cucumeropsis mannii</i> for Ogiri Production. British Microbiology Research Journal 3(1): 1-18, 2013). Therefore, this work needs further tests and original findings to validate the paper as an "Original Research Article". Minor remarks: -Abstract, Page 1, line 13: "were analysed physicochemical properties", You appear to be missing a word or phrase here. Please revise for clarity. -Page 1, line 26: Replace "(Battcock and Aza-Alli, 1998)" by (Battcock and Aza-Alli, 1998) - Page 7, Line 168: Table 1 "futher", Recheck this word, did you mean further? -Replace super-oxide anion radical by superoxide -Page 2, line 54: Replace "(Mehlhorn, 1994)" by (Mehlhorn, 1994)	Further analysis has been carried out added to this paper. Page 1, line 26: Done Page 7, Line 168: It is corrected. super-oxide anion radical is replaced by superoxide Page 2, line 54: "(Mehlhorn, 1994)" is replaced by (Mehlhorn, 1994) words stuck together is corrected. units and numbers stuck together is corrected.
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	-Check the entire document as for words stuck together. - Check the entire document as for units and numbers stuck together - References are appropriate for the work. However, they must be formatted according to the journal's guidelines on submission, along the text as well as in the reference section. -References: "Adeleke, R.O. and Abiodun, O.A. (2010). Physicochemical Properties of Commercial Local. Pakistan Journal of Nutrition., 9(9): 853-855." Check it. -The numbers in sections and subsections must be re-checked. Please clarify the ethical issue: The authors must inform that: "This study did not involve any endangered or protected species and no specific permits were required for the described studies".	References are formatted according to the journal's guidelines. The numbers in sections and subsections are removed. "This study did not involve any endangered or protected species and no specific permits were required for the described studies".
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<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	Review writing, there are many words stuck together. Review units stuck together to numbers. Recheck references according to the journal's guidelines	