



SDI Review Form 1.6

Journal Name:	<u>Physical Science International Journal</u>
Manuscript Number:	Ms_PSIJ_39036
Title of the Manuscript:	ASSESSMENT OF HEAVY METAL CONCENTRATION IN PUMPKIN GROWN ALONG RIVER BENUE IN MAKURDI LOCAL GOVERNMENT AREA OF BENUE STATE
Type of the Article	Mini review paper

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)
Compulsory REVISION comments	<p>METHODOLOGY</p> <p>Sample</p> <p>Pretreatment of Samples for analysis of metals in Vegetable Samples.</p> <p>Determination of Heavy Metals.</p> <p>The totalities of what the author(s) wrote in this section were more of proposal than what they actually carried out. The author(s) should carefully read through this section and report what they have actually done and not what they intend doing as contained in this present paper. Moreover, the author(s) should also include the sampling technique in their write up.</p> <p>Results and Discussion</p> <p>Author(s) should include the units in which their concentrations of heavy metals were measured.</p> <p>They should also supply the WHO/FAO maximum permissible values of heavy metals with which they compared their results in order to validate their assertions.</p>	Ok noted.
Minor REVISION comments	<p>Abstract</p> <p>Line 1. The study aimed at detecting and assessing the concentration of the heavy metals in Pumpkin irrigated using surface and ground water sources grown along river bank.... should read... This study aimed at detecting and assessing the concentrations of heavy metals in Pumpkin irrigated using surface and ground water sources grown along the banks of River Benue, Makurdi, Nigeria.</p> <p>Lines 2&3. The heavy metal detected were cadmium, chromium, cobalt, copper, iron, lead and zinc.... should read.... Eight heavy metals were detected including cadmium, chromium, cobalt, copper, iron, lead, manganese and zinc.</p> <p>Lines 5-14. The result shows the mean concentration of the heavy metals to include.... wurukum had mean concentration of Cd Cr, Co, Cu, Fe, Mn, Pb, and Zn to be 0.920 ± 0.03, 1.61 ± 0.02, 0.410 ± 0.02, 2.42 ± 0.02, 1.02 ± 0.03, 1.22 ± 0.02, 1.41 ± 0.01 and 8.54 ± 0.04 for the heavy metals respectively where as in new garage pumpkin irrigated with surface water had a mean concentration..... should read..... The results show the mean concentrations of the heavy metals to include.... Wurukum had mean concentrations of Cd Cr, Co, Cu, Fe, Mn, Pb, and Zn to be 0.920 ± 0.03, 1.61 ± 0.02, 0.410 ± 0.02, 2.42 ± 0.02, 1.02 ± 0.03, 1.22 ± 0.02, 1.41 ± 0.01 and 8.54 ± 0.04 for the heavy metals respectively. On the other hand, pumpkin irrigated with surface water around the new garage had mean concentrations.....</p> <p>Lines 14-15. The mean concentration of heavy metals in pumpkin irrigated using ground water in the locations studied. This statement should be removed completely.</p> <p>Line 19. and 0.517 ± 0.02 where as Wadata had 8.24 ± 0.2..... should read... and 0.517 ± 0.02 whereas Wadata had 8.24 ± 0.2.....</p> <p>Keywords: Heavy metals, pumpkin, irrigation, River Benue, Makurdi, Nigeria</p> <p>Introduction</p> <p>Page 1 Line 1: purposes through manmade systems..... should read purposes through man-made systems.....</p> <p>Page 2 Line 1:For example, Lopez-Artiguez <i>et al.</i> (1993) has observed that... should read..... For example, Lopez-Artiguez <i>et al.</i> (1993) have observed that.....</p> <p>Page 2 Line 9: Heavy metals such as Cd, Zn,Pb,Cr,Fe and Cu..... should read..... Heavy metals such as Cd, Zn, Pb, Cr, Fe and Cu.....</p> <p>Page 2 Line 12:.....gas explosive on human health are all relatedto the..... should read.... gas explosive on human health are all related to the.....</p> <p>Page 2 Lines 17-18: (Oathman,2001;Osabolien et al. 2013). Green vegetables such as pumpkin</p>	



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	<p>leaf from a substantial portion.... should read..... (Oathman, 2001; Osabolien <i>et al.</i>, 2013). Green vegetables such as pumpkin leaf form a substantial portion....</p> <p>Results</p> <p>Line 2-3: Wadata areas of makurdi. The result shows the mean concentration of the heavy metals.... should read... Wadata areas of Makurdi. The results show the mean concentrations of the heavy metals....</p> <p>Line 6:wurukum had mean concentration..... should read.... Wurukum had mean concentrations.....</p> <p>Line 8-9: respectively where as in new garage pumpkin irrigated with surface water had a mean Concentration..... should read.... On the other hand, pumpkin irrigated with surface water around the new garage had mean concentrations.....</p> <p>Discussion</p> <p>Page 6 Line 10-11: These The level of Pb,Cr and and Zn reported in the pumpkin leaf from these locations also corresponds to the study of Oshman, (2001) for pumpkin and Amaranths leaf..... should read The levels of Pb, Cr and and Zn reported in the pumpkin leaf from these locations were in agreement with those reported in the study of Oshman, (2001) for pumpkin and Amaranths leaf.....</p> <p>Page 6 Line 16:of lead and iron which was below the threshold..... should read of lead and iron which were below the threshold.....</p> <p>Page 7 Line 8:thus signifying theeffectiveness of the efforts of.... should read thus signifying the effectiveness of the efforts of.....</p> <p>Page 7 Line 9:as compared to the finding of.... should read.... as compared to the findings of....</p>	
<p><u>Optional/General</u> comments</p>	<p>Title of manuscript should be reframed as: ASSESSMENT OF HEAVY METAL CONCENTRATIONS IN PUMPKIN GROWN ALONG RIVER BENUE, MAKURDI LOCAL GOVERNMENT AREA OF BENUE STATE, NIGERIA</p>	