



SDI Review Form 1.6

Journal Name:	Chemical Science International Journal
Manuscript Number:	Ms_CSIJ_42634
Title of the Manuscript:	Effect of pharmaceutical effluent on the growth of crops in Nigeria
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>)

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)
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<p>Compulsory REVISION comments Title of the work should be changed.</p>	<p>Effect of pharmaceutical industrial effluent on the growth and heavy metal content of okra (A. esculentus) and tomato (L. esculentum) Line 16: The soil on which the plants was grown was analysed (comment: There was no mention of soil in the Materials and Method section of the work) Line 17: watered by should be changed to watered with. Line 22: watered by should be changed to watered with Line 23-25: Should be: The result obtained showed that the industrial effluents significantly affected --- germination, root, stem and shoot length. Comment: There was no result in the result section on germination count, root and shoot length. Highest concentrations of Pb, Cd, Cr, Zn, Cu, Ni and Fe were found in the roots of these crops compared with either the shoot or the leaf. Comment: The experiment lasted for seven days. It is unimaginable that the seedlings would have developed defined roots shoot and leaves within such a short period. Moreover one finds it difficult to believe that within the short experimental period the crops have absorbed and partitioned the heavy metals as reported in the work. Line 34: ‘ Another point of view is that’ should be replaced with ‘Moreover’ Line 37: delete ‘such’ Line 38: delete ‘but’ replace with ‘ , it also deposits’ Line 41: Since different crop species may have different tolerance to various pollutants Comment: This is not a complete sentence. The author could replace the incomplete statement with ‘Different crop species may have different tolerance to various pollutants.’ Line 47: The materials and method should be re –written because the author failed to give a good description of what was done. Materials and method should be clear so that anybody who wishes to repeat the experiment will be able to do it. Line 50: The full meaning of NARC should be given before the acronym is put in bracket. Line 55; Whatman not Wattman Line 51; ‘equal’ not ‘equally’ Line 55: Plates were labelled as per type ----- (This is not scientific language) Different concns (0, 1%) of each effluent were made with distilled water (Comment: How many effluents did the author use?. The question arises because the author stated ‘each effluent’ indicating that there was more than one effluent. Line 57: ‘Respective effluent concns were provided and incubated’ (Comment: this statement not meaningful. Did the author incubate the effluent or the seeds of okra and tomato treated with various levels of effluent? Line 58; ‘Daily observation were made for the germinated seed’ should be changed to ‘Germination count was taken daily.’ Line 59; Should be ‘The treated seeds were exposed to light for 7 days’ Line 62; ‘For dry weight seeds were incubated’ It is not clear whether the author means that ‘the seedlings were dried in the oven’ Line 59: Before shifting, 10 ml of the nutrient solution was provided with the same concn of effluent. (Comment: this statement is not clear.) Line 68: delete ‘a’ insert ‘the’. Values not value</p> <p>Generally the Materials and Method was poorly presented.</p> <p>Tables All values presented should be to the same number of decimal place.</p> <p>Line 130-132: The increase in the values of these elements from the control might be as a result of these elements present in soil and pharmaceutical effluent as well as in the plant (Comment: There was no mention of soil in the Material and Method section of the work)</p>	<p>Done Done Done</p> <p>Done Done</p> <p>Done</p> <p>Done</p> <p>Done</p>
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Minor REVISION comments		
Optional/General comments	I doubt that the work was carried out. As indicated in the Materials and Method, the seeds were planted in petri-dishes but in the abstract and conclusion, the author was referring to soil.	