

Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_ IJBCRR_88486
Title of the Manuscript:	IN VITRO AND IN VIVO ANTIOXIDANT CAPACITY OF COWPEA (VIGNA UNGUICULATA) GROWN IN COPPER POLLUTED SOIL
Type of the 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:

(<https://www.journalarrb.com/index.php/ARRB/editorial-policy>)

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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)
<p>Compulsory REVISION comments</p>	<p>Please note that I added Line Numbers to the MS</p> <p>Major comments and questions</p> <p>Pg1- In the abstract i.e. in between lines L12-13 - You mention the lower and higher doses of kocide chemical are 5.20 g/L and 10.70 g/L, respectively. However, then in between lines L20 to L25 - You mention the lower and higher concentration of 100 mg/L and 200 mg/L. these differences in results are too confusing. I understand you are converting between g/L to mol/g x 10⁻⁴. However, I still suggest you check this properly and revise the sentences if needed. The reader must know if you converted and how these numbers match. Also Check if these Numbers are supposed for kocide chemical or for Copper Sulphate ?</p> <p>Q. Does both increase or decrease of MDA concentrations found in Stems and leaves indicate stress in the plant ? Is this directly causal? or could there be other reasons?</p> <p>Q. When You mean stress, what is the kind?</p> <p>Q. Why are you simulating Copper pollution in soils by treating it with both ? I mean adding Copper Sulphate and Kocide chemical?</p> <p>Pg3 - L110 - You mention Cowpea but did not relate it with its botanical name I felt like V. unguiculata is Vigna, Vigna unguiculata and copea are all different species. I suggest rephrase</p> <p>Pg4 - L117-118 - This sentence is all of sudden and confusing. Suggestion: In introduction section you also need to mention how the parameters are related to this study. e.g. you are mentioning about parameters like MDA, catalase, superoxide dismutase activities (SOD), total antioxidant capacity (TAC), ferric reducing antioxidant potential (FRAP), reducing power and nitric oxide (NO) free radical scavenging potentials;</p> <p>L146 - Add a reference/citation to give more details to the reader about "Ife brown cowpea IT 84E_124"</p> <p>L152 - How do you know if the soil was uncontaminated ? did you do any testing before ? what were the testing parameters and the results ?</p> <p>L162-163 - How did you collect the parts ? did you use any specific tool ?</p>	

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	<p>If you can add any photo/image of sampling method and the tool used.</p> <p>Q. On the lines falling between L17 to L190 - What instruments were used ? May be if you can list their names, Along with their details such as, Model No., Make, Country of origin, etc. Perhaps make a table.?</p> <p>Pg22 L558-561 - You tested the soil only for copper, what if the soil was already contaminated with other heavy metals?</p> <p>Comment: I think The discussions section makes sense but the The background on antioxidants were not set in Introduction. So I suggest to revise the intro section to relate with many terms you are using in the discussions section.</p> <p>In terms of Contributions of this study. How do you separate the treatments between adding Copper to soil vs adding copper to plants parts ? I am back to the same question ? why did you simulate soil pollution due to copper by using those to chemicals? Is kocide added to soil or is it sprayed on plant parts in general ?</p>	
Minor REVISION comments	<p>This sounds an interesting article. The authors have well written this article.</p> <p>On Pg21, L526 in Table No. 15 I find some minor typo errors such as use of "Kg" and not "kg". kg should be spelled in under case, etc.</p>	
Optional/General comments	<p>It is up to the authors to accept or reject my comments, suggestions and revise the MS and also answer to my questions before the article gets published.</p>	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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