



SDI Review Form 1.6

Journal Name:	Asian Journal of Research in Crop Science
Manuscript Number:	Ms_AJRCS_43691
Title of the Manuscript:	Effects of Lead on Different Seedling Growth Attributes of Cow Pea (Vigna unguiculata)
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:

(<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)
Compulsory REVISION comments	<ol style="list-style-type: none"> 1. In my opinion, the general purpose of the research is not clearly defined in the Introduction. What is the interest in study on the effect of lead on plants of Cow Pea in the conditions of the considered territory? What made the author consider this problem precisely for this plant and actually lead (why not another metal)? 2. In the title of the Article (as well as throughout the text of the article) in the Latin name of plant there is no letter "L" at the end of the plant name. It should be as follows: Vigna unguiculata L. 3. Also, it is not clear what exactly the range of phytotoxic concentrations of lead is caused? Why is the 100 ppm concentration chosen for the experiment as a limit concentration? It is known that lead is characterized by a wide range of phytotoxic concentrations for plants. 	<ol style="list-style-type: none"> 1. Lead is second highly toxic metal to plant growth. 2. Corrected as Vigna unguiculata L. 3. the range of phytotoxic concentration for lead was considered 0, 20, 40, 60, 80 and 100 ppm
Minor REVISION comments	<ol style="list-style-type: none"> 1. In ABSTRACT: "The results showed that V. unguiculata has high tolerance to lead at 20 ppm and lowest at 80 ppm of lead. V. unguiculata seedlings showed highest percentage of tolerance (92.50 %) to lead at 20 ppm and the lowest (6450 %) at 80 of lead treatment. V. unguiculata seedlings showed better percentage of tolerance 73.25 % to lead at 60 ppm". <i>What's mean 6450%?</i> 2. MATERIALS AND METHODS. Why to study phytotoxic effect, the author chose lead acetate, and not another lead salt in research? 3. In my opinion, it would be valuable to get a "dose-effect" mathematical function, which would give an expanded revelation of the phytotoxicity of lead to Cow Pea. "Dose-effect" function gives the possibility to forecast the consequences of lead phytotoxic effect. 	<ol style="list-style-type: none"> 1. The lowest V. unguiculata seedlings was 64.50 % at 80 ppm of lead, but better tolerance of V. unguiculata L. seedlings by 73.25 % at 60 ppm of lead. 2. Has long history of toxicity 3. Study used percentage of tolerance indices
Optional/General comments	Metals-trace elements, on the one hand, provide normal livelihoods of organisms, and on the other hand, in the high concentration they are toxic to biota. Anthropogenic metals contamination of ecosystems as a result of the application of industrial, transport, agrarian and other technologies causes a damage of the	Thank you for conclusion.



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	functioning of plants as an important component in ecosystem. Often plants are the main accumulator of metals in polluted ecosystem. In the same time, plants play an important role in ecosystem as biomass producers and as biodiversity creators. That's why it would be reasonable to get the tools of objective assessment of metals influence on plants in polluted ecosystem. From these positions, this investigation is relevant and interesting.	
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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	