

Review Form 3

Journal Name:	Asian Plant Research Journal
Manuscript Number:	Ms_APRJ_129162
Title of the Manuscript:	Biofortification of potato tubers with zinc fertilizer through soil
Type of the Article	

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	- The study presents the micronutrient management (especially Zn) has received greater attention in potato cultivation system to combat wide spread Zn deficiency. Potato responds well to the applied Zn fertilizer (4 - 8 kg Zn ha ⁻¹). Therefore, improving the Zn uptake from soil and increasing its movement and bioavailability in the edible parts of the potato plant will benefit human and animal nutrition. Zinc plays an important role for growth, productivity and post-harvest quality of potato. Besides, Zn biofortification with potato tubers will be necessary in the future to fully understand the number of nutrients in the soil plant ecosystem and holds great effects for malnutrition problems in human health and it can be a potential option for mitigating wide spread Zn-driven malnutrition for the world population. Plants are the beginning of the food chain and make loads of nutrients for other organisms to eat.	
Is the title of the article suitable? (If not please suggest an alternative title)	Studying the Effect of Zinc Addition to Soil on Potato Biofortification	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Is the manuscript scientifically, correct? Please write here.	Y	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The results indicated that soil application of Zn resulted in a significant increase of tuber Zn concentration with an increase of tuber yield of potato. Tuber yield 17-23% and tuber Zn concentration 56-116% increased over control as influenced by added Zn in soil @ 8 kg ha ⁻¹ and this rate also reached an average of 1.92-fold tuber Zn increase of the varieties. Therefore, agronomic biofortification strategy appears to be essential in keeping sufficient amount of available Zn in soil solution and maintaining adequate Zn transport to the seeds during reproductive growth stage. Enrichment of potatoes with high bio-available Zn is suggested as a way to generate significant health benefits for a large number of susceptible people across the world. Finally, agronomic biofortification would be a very attractive, quick and useful strategy in mitigating wide spread Zn-driven malnutrition related health problems globally and effectively.	
Is the language/English quality of the article suitable for scholarly communications?		
Optional/General comments	Y	
	There are some corrections that researchers should pay attention to: <ul style="list-style-type: none"> ▪ Must be mentioned sources of seeds. ▪ The aim of the study was not mentioned in the introduction ▪ It is better to mention the optimal limits of Zn in the soil and plant. 	

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>	

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