

Review Form 1.7

Journal Name:	Asian Journal of Biology
Manuscript Number:	Ms_AJOB_96611
Title of the Manuscript:	Comparative Analysis of Heavy Metals Concentration in Soil and Vegetable (Vernonia Amygdalina) Collected From Two Sampling Sites (Farmland And Dumpsite) And The Effect On Plant DNA
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:

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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>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>1. The pre-treatment methods for the plant and soil samples appear to be appropriate for the quantification of heavy metals. The samples were cleaned and air-dried, and then processed by ashing and dissolving the residue in nitric acid. The soil samples were treated with a mixture of distilled water and nitric acid, heated and filtered to obtain a digest for determination of metals. The SDS extraction buffer preparation method is also appropriate, as it contains Tris-HCl, EDTA, NaCl, SDS, PVP, and mercaptoethanol, which are commonly used reagents in sample extraction for heavy metal analysis. The conclusion of this study accurately reflects the findings reported in the discussion. The study found that Vernonia amygdalina from both the dumpsite and the farmland had similar levels of heavy metals, and that these levels were within acceptable limits according to the World Health Organization. Additionally, the study found that the soil from both sampling stations also had levels of metals within acceptable limits. However, it would be useful to have more context, such as information about the specific levels of minerals and heavy metals in the study.</p> <p>2. The title is suitable for the article as it provides a clear and concise description of the content of the article. It accurately reflects the focus of the study, which is a comparison of the heavy metal concentrations in soil and vegetable samples collected from two different sampling sites and the effect on the plant's DNA. The specific vegetable being studied, Vernonia Amygdalina, and the two sampling sites, farmland and dumpsite, are also clearly mentioned in the title.</p> <p>3. The abstract of the article provides a general overview of the study. It describes the research objective, methods used, and the main results. However, it could be improved by providing more detailed information on the study design, such as the sample size, the number of samples analyzed, the data analysis methods used, and the statistical significance level. Additionally, the conclusion section could be more clearly linked to the results of the study. Overall, the abstract provides a good starting point, but could benefit from some refinement to make it more comprehensive.</p> <p>4. Yes, the given subsections and structure of the manuscript are appropriate for an article in this field. The sections provide a comprehensive overview of the research conducted and provide the necessary information for the reader to understand the study, the methodology used, the results obtained and the conclusions drawn.</p> <p>5. The research about a comparative analysis of heavy metals concentration in soil and vegetable (Vernonia Amygdalina) collected from two sampling sites (farmland and dumpsite) and the effect on plant DNA could be considered a relevant and current topic for publication in a scientific journal within the environmental science or agriculture field. Such a study can contribute to our understanding of the effects of heavy metal pollution on the environment and the potential risks to human health through the consumption of contaminated vegetables.</p> <p>6. The references included in the manuscript appear to be sufficient and recent based on the current state of the art.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>1. The English used in the manuscript is good, but some editing could further improve the clarity and coherence of the writing.</p>	
<p>Optional/General comments</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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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