

Review Form 1.7

Journal Name:	Asian Plant Research Journal
Manuscript Number:	Ms_APRJ_99353
Title of the Manuscript:	ISOLATION CHARACTERIZATION AND DIVERSITY OF INDIGENOUS PESTICIDE DEGRADING MICROBES FROM SELECTED AGRO ECOLOGICAL ZONES OF MALAWI
Type of the Article	Research

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.journalapri.com/index.php/APRJ/editorial-policy>)

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>This article is interesting for scientific community. Bioremediation is cheap, practical and environmentally friendly. It advocates indigenous microbes use to degrade pesticide; this study has been performed to show prospects of degrading microorganisms. The authors isolated microbes from different agro ecological zones to assess their capacity to utilize some pesticide as sole carbon source complimented by the presence of laccase gene. Biochemical test and genetic characterization using 16S rDNA genes were used in identification. Diversified species and strains of genus Enterobacter, Klebsiella, Pseudomonas, Pantoea and Leclercia, were found to degrade cypermethrin and acetochlor but no microbe was found to degrade dimethoate. The study adds new strain of microbes involved in degradation of cypermethrin and acetochlor and also strains that that can degrade both. The study puts proposition that pest infestation in fields is a result of abundance of xenobiotic degrading microbes due to natural selection pressure not pesticide resistance of the pest.</p> <p>The title of the article is suitable. The manuscript is scientifically correct. Subsections and structure of the manuscript appropriate Some references are needed it. i.e. Pest infestation is one of the causes for decrease in yield and yield components in Malawi. REF: Alene, A.D., P. Neuenschwander, V.M. Manyong, O. Coulibaly, and R. Hanna. 2005. The impact of IITA-led biological control of major pests insub-Saharan African agriculture. Imp: ct Series, IITA, Ibadan, Nigeria. 26p Characterizations of isolates were done by sequencing 16S rDNA gene. (Jill E. Clarridge, III*. Impact of 16S rRNA Gene Sequence Analysis for Identification of Bacteria on Clinical Microbiology and Infectious Diseases. Clin Microbiol Rev. 2004 Oct; 17(4): 840–862.) There are several clean-up mechanisms for pesticides: xenobiotics; volatilization, chemical treatment methods and incineration.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>English quality is suitable.</p>	
<p>Optional/General comments</p>	<p>The article is interesting and well raised. It just needs some minor corrections and some references. References 22, 30, 50 and 51. Change the title to lowercase letters. Where are the results for Hydrogen Cyanide? Table 1: complete the list of abbreviations.</p>	

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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>	

Reviewer Details:

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