



SDI Review Form 1.6

Journal Name:	Asian Journal of Biology
Manuscript Number:	Ms_AJOB_34747
Title of the Manuscript:	Enzyme Hydrolysis of Hydrogen Peroxide Pretreated Lignocellulosic Content of Rice Husks Prior to Bioethanol Formation
Type of the Article	Short 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
Compulsory REVISION comments	- Some researchers (Taherzadeh, et al 2008; Oyen et al., 2013; Yilmaz et al 2016) have published an article on the degradation of lignocellulose by hydrogen peroxide, please describe the novelty of this article - Please elaborate how the data analysis to draw conclusions - Please describe how hydrogen peroxide can degrade lignocellulose and convert it into reducing sugar	- Thank you for taking out time to thoroughly go through the manuscript. We agree that a some researchers have worked and published articles on hydrogen peroxide degradation of lignocelluloses, however, - To the best of our knowledge Tarhezardeh et al., 2008 was a review of the different methods of pretreatment of lignocellulosic wastes spanning various physical, chemical and biological methodologies. His works in 2007, described acid and enzyme based hydrolysis. - The works of Ayeni et al., 2013 was focussed on wood waste and showed the effect of alkaline peroxide pretreatment - Yilmaz et al., investigated the effect of alkaline peroxide pretreatment - This work focuses on the effect of varying the concentration of hydrogen peroxide (without altering the pH, line 66-67) on rice husks. To the best of our knowledge this experiment has not been carried out in Nigeria (line 49-50). - Data analysis will be elaborate in a subsequent paper that we hope to publish soon. We hope that this will not prevent publication of our manuscript



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		as works by Adeeyo et al., 2015; Okpe et al., 2016; Novia et al., 2017 and Shi et al., 2011 have been published without elaborate statistical analysis. • Biomass pretreated with hydrogen peroxide undergoes delignification as a result of the interaction of the aromatic ring of lignin with hydrogen peroxide leading to increased digestibility (lines 45-47).
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<u>Minor</u> REVISION comments	• Please show value and standard deviation in the graph • Please choose one graph or table to display the observed data?	• Values for standard deviation are absent as this work was not done in triplicates. We however have continued the experiment as part of a larger research which we hope to publish as soon as possible detailing standard deviation and analysis of variance. • We agree that using one of the graphs might be a sufficient descriptive tool for this experiment. However, we believe that the bar chart and the graph are descriptive of different parameters as such we believe that presenting our findings with each parameter having its own graph may help. Also, we have found that putting the values for glucose yield and percent saccharification in one graph (Microsoft excel 2007) might render the work cumbersome. We will like to use the work of Alrumman (2016) where different graphs and charts were used as a reference.
<u>Optional/General</u> comments	Articles need to minor revision	• Thank you for your comments. Errors in the manuscript have been corrected. We greatly appreciate the effort taken to go through the work and suggestions made.