



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	2014_IJBcRR_15169
Title of the Manuscript:	Toxicological evaluation of palm kernel oil (PKO) biodiesel-contaminated catfish on kidney of albino rats
Type of the Article	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments																																												
The authors did not ascertain the age range of the experimental animals. The authors did not state the rationale used in grouping the experimental animals. <u>Author did not present the correlation analysis of the</u> tissue enzymes. For example: <table><tr><th>Groups</th><th>Control</th><th>BD.1</th><th>BD.25</th></tr><tr><td>ALP vs ACP</td><td>P-value (r-value)</td><td>P-value (r-value)</td><td>P-value (r-value)</td></tr><tr><td>SOD vs GST</td><td></td><td></td><td></td></tr><tr><td>MDA vs CAT</td><td></td><td></td><td></td></tr><tr><td>GST vs MDA</td><td></td><td></td><td></td></tr><tr><td>GST vs ALP</td><td></td><td></td><td></td></tr><tr><td>GST vs ACP</td><td></td><td></td><td></td></tr><tr><td>CAT vs SOD</td><td></td><td></td><td></td></tr><tr><td>SOD vs MDA</td><td></td><td></td><td></td></tr><tr><td>MDA vs ALP</td><td></td><td></td><td></td></tr><tr><td>MDA vs ACP</td><td></td><td></td><td></td></tr></table> The slide readings of Figure 5 and 6 are incorrect. Author should consider removing the entire histological aspect of the study if he/she cannot get a good histopathology's to read the slides. The approval letter given by an ethics committee does contain reference number. How do we verify that the study was actually approved without the reference number?? According to the author, “The chosen concentration represents the real situation of environmental impact” while he did not state or present prior estimate of oil spillage in the environment under consideration. This is unacceptable. Who assessed the overall health statuses of experimental animals??? How was the food remnants measured? Author should provide the statistical values of the food-intake group comparison.	Groups	Control	BD.1	BD.25	ALP vs ACP	P-value (r-value)	P-value (r-value)	P-value (r-value)	SOD vs GST				MDA vs CAT				GST vs MDA				GST vs ALP				GST vs ACP				CAT vs SOD				SOD vs MDA				MDA vs ALP				MDA vs ACP				The age of experimental animals ranges between 4 – 6 weeks The animals were grouped randomly The correlation analysis of tissue enzymes was not done as the aim of the study was to evaluate the effect of biodiesel-contaminated fish on selected enzymes of kidney used as biomarkers. However, DMRT was used to evaluate the assess differences between and among the various experimental groups at 95% level of significance. Slide reading was confirmed correct by the expert. Facility will be denied any study not approved by the ethics committee. This is my only proof. This information is contained in a paper earlier published Adeyemi, O (2014). Impact of palm kernel oil (PKO) Biodiesel-Contaminated Catfish on Hepatic Function of Rat. J. Pollut Eff. Cont 3(127): 1-6 The expert rat technologist helped to ascertain health status of animals The rats were given food and water ad libium.
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