



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">International Journal of Biochemistry Research &amp; Review</a>                                              |
| Manuscript Number:       | Ms_IJBcRR_38602                                                                                                          |
| Title of the Manuscript: | Systemic Effects of Nigerian Bituminous Coal Fly Ash in Albino Rats: Serum Biochemistry and Histopathological Evaluation |
| Type of the 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Compulsory</b> REVISION comments |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Minor</b> REVISION comments      | <p>I. In material and methods point 2.2. Animals and treatment should clarify which are the group I, II and III mice is not clear when reading the results. Which belongs to each group?</p> <p>II. Why do you administer the sample to the mice at 14 and 28 days?</p> <p>III. The biochemical indices they showed that ALAT, ASAT and SAP were not significantly increased, as shown in figure 1, should clarify why?</p> <p>IV. Some human studies have been conducted who have inhaled bituminous coal</p> | <p>I. The observations were effected and stated clearly in the manuscript. "Rats in group I were administered 100 mg/kg, the group II rats were administered 200 mg/kg body weight and the rats in group III received 500 mg/kg".</p> <p>II. The 14 days and 28 days study were conducted to ascertain the severity of prolong administration in comparison to the effect following short term administration</p> <p>III. Liver cells are highly resilient with an exceptional ability to regenerate and repair self, except otherwise overwhelmed, the estimation of the presence or absence of hepatic mal-function (liver enzymes activities) is compelled by the tremendous functional reserve of the liver to terminates radical toxicity induce potentials. The slight changes in the hepatic cells could be a reversible effect. The regenerative tendency and functional reserve of the hepatic cells to detoxify both endogenous and exogenous substances could be the probable reason for the insignificant changes recorded in the liver biomarkers activities</p> <p>IV. Reports shows the accumulation of pulmonary dust in coal mine workers and revealed a direct relationship between the amount of pulmonary dust and the extent of pneumoconiosis. The dust laden were investigated using a small opacitics (less than 1cm in diameter) on X – rays. The effect were reported to be associated with decrement in ventilatory capacity, low diffusing capacity and abnormalities in gas exchange. However, the study did not reveal detail <i>in vivo</i> investigation, histopathologically or in serum biochemistry</p> |
| <b>Optional/General</b> comments    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |