

**Review Form 1.7**

Journal Name:	<b>Asian Journal of Fisheries and Aquatic Research</b>
Manuscript Number:	<b>Ms_AJFAR_107705</b>
Title of the Manuscript:	<b>Predisposing Factors that Promote Prevalence of heavy metals assimilation and bioaccumulation in aquatic medium and amongst fishes</b>
Type of the Article	<b>Original Research Article</b>

**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>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)</b>
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p>Heavy metals concentrations and the degree of assimilation and bioaccumulation in fish tissues (muscles, gills, liver, and kidneys), amongst scale-less fishes- <i>Chrysichthys macrotis</i>, <i>Chrysichthys nigrodigitatus</i>, <i>Clarias gariepinus</i>, and <i>Heterobranchus longifilis</i>, - scaly fishes- <i>Cynoglossus senegalensis</i>, <i>Oreochromis aureus</i>, <i>O. niloticus</i>, <i>Lutjanus fulgens</i>, <i>Pomadasys rogeri</i>, and <i>Tilapia galilea</i>, water columns and sediments were investigated using atomic absorption spectrophotometer (AAS). . Heavy metals assimilation and bioaccumulation varied among organisms with or without scales</p> <p>1. There is much originality in this work, but the map of the study area should be inserted in the main text to help get a more concise description of the study area.</p> <p>2. In your discussion the trends of heavy metals concentration should be indicated for Lemna slaughterhouse and Calabar estuary as shown for Mbaa river.</p> <p>3. Possible reasons for high concentrations of Mn, Fe, Cu, Zn, Ar, Hg, Cd and Pb in Table 6 – 12 in the different species of fishes from the three samples sites should be stated.</p> <p>4. In my opinion the concluding part should read thus:</p> <p>This research sought to find out the level of impact of effluent discharges in Mbaa River on the water quality, sediments, and aquatic organism and factors that predispose or prevent aquatic organisms from assimilating and accumulating heavy metals in their organs and the organs of greatest impart of heavy metals amongst scaly and scaleless fishes. It is logical to say that the high concentration of heavy metals from the Lemna slaughterhouse and Calabar estuary becomes accumulated in the sediments and in due course gets transferred to fishes. In virtually all heavy metals assessed, the scaleless fishes were found to accumulate higher metals than scaly fishes implying that scales have a way of lowering bioaccumulation and bio assimilation of heavy metals in fishes</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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