



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">Journal of Advances in Microbiology</a>                                                                                  |
| Manuscript Number:       | Ms_JAMB_41605                                                                                                                        |
| Title of the Manuscript: | Determination of the Bacterial Community Structure in a Crude oil-inundated Tropical Soil using Next Generation Sequencing Technique |
| Type of the Article      | Original 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**

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| <p><b>Compulsory</b> REVISION comments</p> <p>Abstract:</p> <p>Line 10: The word 'Nigreia" should be corrected</p> <p>Line 20, 133 and 134: DNA acronym was not defined and should not be used to start sentence</p> <p>Line 29 – 30: The remaining 25.5% of the population was not accounted for</p> <p>Introduction:</p> <p>Line 57: The referencing does not conform to the journal rule of in-text referencing</p> <p>Materials and methods:</p> <p>Line 103: First letter of every word in the sentence are capitalized</p> <p>Line 106: The name and address of the laboratory where the microbiological was carried out was not mentioned</p> <p>Line 107: Method of isolation of bacteria from soil was not properly phrased</p> <p>Line 110: There was of the soil sample was collected</p> <p>Line 115: The temperature for bacterial growth in this manuscript was 25°C for 24 hours</p> <p>Line 122 – 130: The two paragraphs are saying the same things in different ways. They also have the same sub-section number.</p> <p>Gram's reaction is not used to check for purity of the isolates</p> <p>Microscopy is not a method of identification of the bacterial isolates</p> <p>Section 2.2.2 was repeated twice</p> | <p>Spelling of the country name should be corrected as "Nigeria"</p> <p>DNA should be defined on first appearance in the manuscript. Write it as Deoxyribonucleic acid (DNA)....</p> <p>The remaining 25.5% should be accounted for as population of other bacterial species that may be present in the soil.</p> <p>Remove John and Okpokwasili, 2012 and replace with [5]</p> <p>Use sentence case (Only the first word in the sentence should start with capital letter).</p> <p>The name and address of the laboratory where the microbiological was carried out must be stated. If possible the month and year of carrying out the experiment must also be mentioned.</p> <p>Rephrase as "Isolation of bacterial strains from soil sample".</p> <p>Since there was a description on how the soil sample was collected already, there is no need repeating the sentence. Simply start the paragraph as "The soil sample was diluted....."</p> <p>The optimum incubation temperature for bacterial strains ranges between 35°C and 37°C for 24 hours which is a standard. Only fungal isolates grow at 25°C for 3-5 days except in special cases.</p> <p>It should be rephrased as a single paragraph and it should be titled "Identification of the bacterial isolates".</p> <p>Colonial morphology and Gram's reaction are used as preliminary methods of identification of the bacterial isolates with the use of microscope. Microscopy is just a phenomenon describing a tool of identification which is the use of microscope. Follow the sequence below:</p> <ol style="list-style-type: none"> <li>Morphological identification</li> <li>Biochemical tests</li> <li>Molecular analysis</li> </ol> <p>The two paragraphs should be rephrased and joined together to form one paragraph.</p> <p>Check through and review the titles</p> <p>Replace with a clearer phylogenetic tree</p> <p>Adjust all references to follow the journal style. Examples are stated below:</p> <ol style="list-style-type: none"> <li>Ojewumi ME. A bioremediation study of raw and treated crude petroleum oil polluted soil with <i>Aspergillus niger</i> and <i>Pseudomonas aeruginosa</i>. Journal of</li> </ol> |                                                                                                                                                                               |



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| <p>Figure 5a and 5b Titles are same<br/>The Phylogenetic trees are not clear</p> <p><b>References</b><br/>All the references in the bibliography does not conform to the journal style</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>Ecological Engineering. 2018; 19(2):226-235.</p> <p>2. Davies OA, Allison ME, Uyi HS. Bioaccumulation of heavy metals in water, sediment and periwinkle (<i>Tympanotonus fuscatus varradula</i>) from the Elechi Creek, Niger Delta. African Journal of Biotechnology. 2006; 5(10):968-973.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <p><b>Minor</b> REVISION comments<br/><b>Introduction:</b><br/>Line 42: There was no space between “media” and “usually”<br/>Line 43: There was no space between “in” and “the”<br/>Line 52: There was no space between “bacteria;” and “<i>Arthrobacter</i>”<br/>          There was double space between “<i>Arthrobacter,</i>” and “<i>Flavobacterium</i>”<br/><br/>Line 114 and 125: nutrient agar plates (petridishes)<br/><br/>Line 115: The phrase “in an incubator” is not necessary<br/><br/>Line 116 and 119: mineral salt agar<br/><br/><b>Result and Discussion</b><br/>Line 175 - 176: “The cultural morphology..... was employed” should be removed<br/>          The word “cum” should be removed. It was an error<br/><br/>Line 196 – 199: The paragraph should be rephrased<br/><br/>Line 204: Reference does not conform with style in-text referencing<br/>Line 210: Niger Delta region (which country)<br/><br/>Line 216 – 250: Numbering should not be presented as done in your result<br/><br/>Line 386: phrases such as “this shows that” should be avoided<br/><br/>Line 387 – 388: gram negative was in lower case<br/>Line 402: Previous researchers’ works was not referenced<br/>Line 404: Kanaly et al., 2000 does not conform with the reference style<br/>Line 435: ‘Similar studies by ...’ works was not referenced<br/>Line 481: The word “revelation” should be changed</p> | <p>Put a space between “media” and “usually”<br/>Put a space between “in” and “the”<br/>Put a space between “bacteria;” and “<i>Arthrobacter</i>”<br/>Remove the double space between “<i>Arthrobacter,</i>” and “<i>Flavobacterium</i>”<br/>It should be written as Nutrient Agar (NA) plates. (The manufacturer’s name and expiry date should be stated in bracket)<br/><br/>The phrase should be removed completely.<br/><br/>It should be written as Mineral Salt Agar (MSA). (The manufacturer’s name and expiry date should be stated in bracket)<br/><br/>It was already discussed in the materials and method. Don’t repeat your method in result and discussion<br/>The word “cum” should be removed<br/>Start your paragraph as “All the bacterial isolates ..... ferment lactose (Table 2)<br/>All the bacterial isolates were urease negative except <i>Acetobacter</i> sp which was urease positive<br/><br/>It should be stated as previously reported by [16]<br/><br/>Niger Delta region in Nigeria.<br/><br/>Present your results in paragraphs not numbering the paragraphs.<br/><br/>The sentence should be rephrased<br/><br/>“Gram” should be capitalised<br/>Previous researchers should be referenced<br/>Remove and replace with [17]<br/><br/>Please put a reference on line 435<br/><br/>Use the scientific word “finding” instead of revelation</p> |  |
| <p><b>Optional/General</b> comments</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |



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**Reviewer Details:**

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|----------------------------------|-------------------------------------------------------------------------------|
| Name:                            | <b><i>Obafemi Yemisi Dorcas</i></b>                                           |
| Department, University & Country | <b><i>Department of Biological Sciences, Covenant University, Nigeria</i></b> |