

Review Form 3

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_127151
Title of the Manuscript:	EVALUATION OF PRESUMED DROUGHT IMPACTED SOILS THROUGH PHOSPHOLIPID FATTY ACID (PLFA) BIOMARKERS
Type of the Article	Original Research Article

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The objective of this manuscript is to delineate the potential of PLFA biomarkers as a means of demonstrating the impact of drought on soil microbial communities in Nigeria. A positive and significant relationship exists between soil physiochemical properties and organic carbon and organic matter, which in turn influence the distribution of volatile compounds and certain soil nutrients. In this manuscript, the soil physiochemical variables are inadequate for reflecting drought conditions. Additional parameters, such as humidity, water content, temperature and texture or structure, are required to reflect the impact of drought. Furthermore, the article lacks background and references to elucidate the reasons why this research is important and the history of previous studies related to this research. However, a comprehensive description of the research location, including its geological characteristics, altitude and rainfall, is indispensable.	
Is the title of the article suitable? (If not please suggest an alternative title)	It is recommended that the title be changed to more accurately reflect the study area, as the global drought impact conditions represented by the study site in Nigeria are not adequately described in this text.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	In the abstract, the aim, study design, place, and duration may be presented in a more concise manner. Conversely, the discussion based on the results should be presented in greater detail.	
Are subsections and structure of the manuscript appropriate?	The introduction was inadequate and the results and discussion section lacked sufficient reflection on the findings and the author's perspective on their implications.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The historical studies of drought impact on soil and PLFA Biomarkers strongly needed in study background. The detail of study area and the representative's location of this research need in material and methods. The <i>p</i> values have to using <0.001 not 0.00. The correlation between physiochemical and microbial communities did not describe in this manuscript. Microbial diversity of bacteria and fungi appearance in each environmental gradient have to showed in some statistical analysis, for example GLMs or NMDS.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	References with more variables of drought impact required, listed some below: 1. https://doi.org/10.1006/jare.1996.0099 2. https://doi.org/10.2307/3802836 3. https://doi.org/10.1111/j.1365-2486.2010.02285.x	

Review Form 3

Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The academical English proofreader required to improve the manuscript writing and reduce grammatical error.	
Optional/General comments	Please using line number for easier review and correction. The figures and tables need revision to be more academical manuscript.	

PART 2:

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

Reviewer Details:

Name:	Satruo Budi Prakoso
Department, University & Country	Ehime University, Japan