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| Book Name: | [**Geography, Earth Science and Environment: Research Highlights**](https://www.bookpi.org/bookstore/product/geography-earth-science-and-environment-research-highlights-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4647** |
| Title of the Manuscript: | **Temperature and Cultivar Influence on Enzyme Activity and Composition of the Microbial Community in the Rhizosphere of Sweet Potato during Early Growth Stage** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**International Journal of Environment and Climate Change, 15(2): 326-342, 2025.**

**DOI:** [**https://doi.org/10.9734/ijecc/2025/v15i24730**](https://doi.org/10.9734/ijecc/2025/v15i24730)

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **The manuscript “Temperature and Cultivar Influence on Enzyme Activity and Composition of the Microbial Community in the Rhizosphere of Sweet Potato during Early Growth Stage” showed the significance about rhizosphere population and changes in biochemical parameters under influence of temperature.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **no** |  |
| 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. | **-** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The author has collected the rhizosphere samples 65 days after planting (65 DAP) from both cultivars were collected. The microbial composition, including bacterial 16S rDNA and fungal ITS (Internal Transcribed Spacer), was analyzed using a standard DNA-Based Quantitative Technique The extracellular enzymes, Acid Phosphatases (P-acid), β-Glucosidase (GLU), N-acetylglucosaminidase (β-NAG) and phosphodiesterase (DIEST) were analyzed using fluorometric microplate enzyme assays. But, the author could assessed the rhizosphere soil samples before sowing the crop for above parameters (microbial composition, including bacterial 16S rDNA and fungal ITS (Internal Transcribed Spacer, extracellular enzymes, Acid Phosphatases (P-acid), β-Glucosidase (GLU), N-acetylglucosaminidase (β-NAG) and phosphodiesterase (DIEST) were analyzed using fluorometric microplate enzyme assays). This data is missing in the manuscript.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Suitable |  |
| Optional/General comments |  |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?** | *(If yes, Kindly please write down the ethical issues here in detail)*  No |  |

**Reviewer details:**

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