

# Review of: "Assessment of Quality, Bacterial Population and Diversity of Irrigation Water in Selected Areas of Minna, Niger State, Nigeria"

# Ayejoto Daniel<sup>1</sup>

1 Texas Christian University

Potential competing interests: No potential competing interests to declare.

Overall, the paper provides valuable insights into the quality, bacterial population, and diversity of irrigation water in selected areas of Minna, Niger State, Nigeria. Here are some suggestions for improving each section of the paper:

#### 1. Declarations:

- Ensure that ethical considerations, funding sources, and conflicts of interest are clearly stated if applicable.

#### 2. Abstract:

- Provide a concise summary of the study's objectives, methods, key findings, and implications.
- Consider including specific numerical results in the abstract to provide readers with a clearer understanding of the study's outcomes.

## 3. Introduction:

- Provide more context regarding the importance and relevance of assessing irrigation water quality in the study area.
- Include recent literature to support the significance of the research topic.
- Clearly articulate the research gap that the study aims to address.
- Provide a more focused transition from general information about water usage to the specific objectives of the study.

## 4. Materials and Methods:

- Provide more detailed descriptions of the sampling techniques, including the rationale for selecting specific sampling locations and times.
- Clarify how samples were handled and transported to the laboratory to ensure the accuracy of microbial analyses.
- Describe any quality control measures implemented during the experimental procedures.
- Provide references or citations for the standard methods used in water analysis.

# 5. Results and Discussion:

- Organize the results section logically, following the sequence of the objectives stated in the introduction.
- Use tables and figures effectively to present the data in a clear and concise manner.
- Provide detailed interpretations of the results, linking them back to the study objectives and relevant literature.
- Discuss the implications of the findings in the context of water management and agricultural practices in the study area.



- Compare the results obtained in this study with findings from previous research to highlight any differences or similarities.
- Address any limitations of the study and suggest areas for future research.

# 6. Conclusion:

- Summarize the key findings of the study concisely.
- Emphasize the significance of the findings and their implications for water quality management and agricultural sustainability.
- Provide recommendations for policymakers, water resource managers, and other stakeholders based on the study results.