

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

Rinae Makhadi¹

¹ University of the Free State

Potential competing interests: No potential competing interests to declare.

Abstract

Please specify in the abstract if they are using wastewater or not for irrigation in your study area, as in the introduction there is a lengthy discussion on wastewater being used for irrigation in Nigeria. Rephrase the statement on water collected from sources and mixed together to represent locations, as the statement is not clear. It will be good to specify the type of bacteria and not just indicate "the highest bacterial population." Nothing on the physicochemical parameters was highlighted in the abstract. REMEMBER, AN ABSTRACT IS A BRIEF COMPREHENSION OF ALL THE CONTENTS OF THE PAPER.

Introduction

A lot of statements in this section lack references. Aligning/grouping of the statements in the section must be done, as there is some lack of coherence. This section must also be revised thoroughly to align it to the objectives of the paper; focus is mainly on the bacterial quality and nothing much on physicochemical parameters, but the heading is inclusive of overall quality.

Please go through published articles to see how to concisely include the study aims and objectives. There's also the table on standards for irrigation of water; nothing has been mentioned on the table, it was just abruptly included with nothing mentioned on it.

Materials and methods

The soil, water, and vegetation description can be briefly described in the study area subsection; no need to have a separate section. Pre-sterilized bottles are used for the microbial analysis, normal plastic bottles for physicochemical parameters. Preparation of agar and all the methods can be referred to specific references and briefly described; no need for a detailed description of each.

Results and discussion

Statements such as "who worked on" can be rephrased for better clarity. It will be good to compare the various measured parameters to the recommended limits by the WHO (World Health Organization). The section also has to be revised for

clarity, as there is a lack of cohesion in the reporting of the findings as well as scientific backup from published literature.