Review of: "The Role of Plant Growth-Promoting Bacteria (PGPB) in Soil Fertility Restoration in Chemical-Contaminated Areas"

Faten Dhawi[1]

1 King Faisal University

Potential competing interests: No potential competing interests to declare.

I'd like to thank the author for their insightful review. I have some suggestions to enhance it further.

In the introduction, I propose providing more details in the following areas:

- Expound upon the conventional soil remediation procedures, shedding light on their costs and environmental impact. What exactly are these conventional procedures?
- Delve into the methods used in conventional reclamation, elucidating their expense and impracticality. Could you specify these methods?

Within section 3.1 on Field-Specific Formulations, it would be beneficial to provide more comprehensive examples from recent and historical studies in this field. Can you elaborate on various specific scenarios in this context?

In section 3.2, which covers Interaction with Indigenous Microbiota, I recommend offering more extensive insights backed by recent studies in this area.

Moving on to section 3.3 on Risk Assessment, it's essential to acknowledge that researchers and bioengineers are increasingly adopting antibiotic-free strategies. This shift addresses concerns surrounding antibiotic resistance and promotes the responsible use of genetic engineering in biotechnology and synthetic biology. I would strongly advise updating the Risk Assessment section to reflect these facts. Additionally, consider including considerations for producing modified bacteria without antibiotic resistance genes, such as:

1. Antibiotic-Free Selection Methods
2. Markerless Techniques
3. Suicide Vectors
4. Genome Editing Techniques
5. Synthetic Biology

Wishing you the best of luck with your revisions!