Editor's Comment:

This document is a bibliographical work which highlights the beneficial role of certain soil microorganisms in improving crop productivity. It is very interesting and educational. However, we urge the author to make more effort to further enrich and improve this document. We suggest the following improvements:

1- Title:

Beneficial role of the soil microbiome in improving crop productivity, overview of a recent study

2. Introduction:

- Biotic factors: (1) in addition to the host plant and its role on the diversity and abundance of the microbiome, you must document on the (2) other competitive animals.

- in this chapter, you confuse microbial growth (exponential phase and decline phase) with that of the plant (germination, development of the vegetative system (roots, stems and leaves) and growth, followed by flowering, pollination and fruiting).

- Abiotic factors: grazers and other animals are not abiotic!

Note: these 2 paragraphs do not contain any references (to be reviewed).

3. Microbiome interaction:

- Document the role of the nitrogen cycle microbiome in the availability of nitrogen for the plant (ammonification and nitrification). Fixatives in the free state and fixatives in association or symbiosis!

3.1. Interaction between microbial soil and plant

- You need to document a little of the molecular dialogue between plants and microbiome!

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