Dear Editors,

Thank you for your further comments on our manuscript entitled "Inducing

Banana Fusarium Wilt Disease Suppression through Soil Microbiome Reshaping by

Pineapple-Banana Rotation Combined with Biofertilizer Application" (Manuscript No:

soil-2021-52). We have carefully dealt with the comments point by point. The responses to

your comments are listed as follows. The manuscript has certainly benefited from these

insightful revision suggestions. We hope that these revisions successfully address your

concerns and requirements.

Thank you and best regards,

Sincerely yours,

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Topical Editor

Even though the manuscript improved somehow based reviews' comments. However, there

are yet some concerns on language expression and some grammatical issues.

1 L29: "lacks" should be "lack".

Answer: Thank you very much for your comments. We have corrected it as "lack".

2 The reviewer recommended using the simple present tense to describe the knowledge gap in

the introduction part, however, the results obtained in the current study should be expressed in

the past tense. Please correct this issue in the abstract.

Answer: Thank you very much for your comments. We correct the tense of the results in the

abstract as following:

"Our results showed that pineapple-banana rotation significantly reduced Fusarium wilt

disease incidence, and that the application of bio-organic fertilizer caused additional

suppression. Bacterial and fungal communities thrived using rotation in combination with

bio-organic fertilizer application: taxonomic and phylogenetic α-diversity in both bacteria and

fungi increased along with disease suppression. Between the two strategies, bio-organic

fertilizer application affected both bacterial and fungal community composition most

predominantly, followed by rotation. Large-scale changes in the fungal community

composition and special Burkholderia-related network contributed to the observed soil-borne

disease suppression. Our results indicated that pineapple-banana rotation combined with

bio-organic fertilizer application has strong potential for the sustainable management of

banana Fusarium wilt disease."

3 Line 121: scheme?

Answer: Thank you very much for your comments. We have corrected it as "In addition, this

scheme will concurrently change soil microbial community membership and structure."

4 Line 126: abilities?

Answer: Thank you very much for your comments. We have corrected it as "1) determine the

direct effects of pineapple-banana rotation alone and pineapple-banana rotation combined

with biofertilizer application to control banana Fusarium wilt disease"

5 Line 136 NH4+

Answer: Thank you very much for your comments. We have corrected it.

6 Line 139: fragment of the sentence.

Answer: Thank you very much for your comments. We have corrected it as "The organic

fertilizer (OF) used in our study was a first fermentation with a 2:3 weight ratio using amino

acid fertilizer and pig manure. The bio-organic fertilizer (BIO) was a secondarily fermentation

based on OF according to the solid fermentation method (Wang et al., 2013)."

7 Line 147: Field?

Answer: Thank you very much for your comments. We have corrected it as "Banana cultivar

Musa acuminate AAA Cavendish cv. Brazil and the pineapple cultivar Golden pineapple were used in the field experiment."

8 Treatments in the materials and methods need to be explained in detail: how many years banana rotation with pineapple since rotation year is also important. When was the experiment conducted?

Answer: Thank you very much for your comments. We have corrected it as following:

"The field experimental site was set at Hainan Wanzhong Industrial Co., Ltd., China, a company that specialized in banana planting during December 2011and June 2014."

"(1) banana continuously cropped for two years with common organic fertilizer applied (BOF); (2) banana planted after an eighteen-month pineapple rotation with common organic fertilizer applied in the banana season (POF); and (3) banana planted after an eighteen-month pineapple rotation treatment with bio-organic fertilizer applied (PBIO)."

9 Fig.1A was not cited in the results.

Answer: Thank you very much for your comments. We have cited Fig.1A as "the relative abundance of *Fusarium* in the next season's banana plantation (**Fig. 1A and B**)." this time.

10 Grammatical issues expression for BOF, POF and PBIO. Please correct them.

Answer: Thank you very much for your comments. We have corrected it as "BOF=banana continuously cropped with OF applied; POF= banana-pineapple rotation with OF applied in the banana season; and PBIO=banana-pineapple rotation with BIO applied in the banana season." on the whole manuscript.

11 Line 290: separated

Answer: Thank you very much for your comments. We have corrected it.

12 Title for Figure 4 needs improved.

Answer: Thank you very much for your comments. We have improved it as "**Figure 4.** Relative abundance of key phyla and linear regression relationship between key phyla and disease incidence (A). Percentage of FOC related bacterial and fungal phyla in all treatments (B)."

13 All abbreviations should be explained in all tables and figures. Figure 6.

Answer: Thank you very much for your comments. We have explained all abbreviations as "BOF=banana continuously cropped with OF applied; POF= banana-pineapple rotation with

OF applied in the banana season; PBIO=banana-pineapple rotation with BIO applied in the banana season; Avg K=average connectivity; Avg CC=average clustering coefficient; and GD=average path distance."

14 Line 389-390: gramma issue

Answer: Thank you very much for your comments. We have corrected it as "In our previous research, the effectiveness of pineapple-banana rotation and bio-organic fertilizer application were proven in the control of banana Fusarium wilt disease (Wang et al., 2015; Fu et al., 2017).".

15 Line 396-397: indicated, reduced, past tense should be used.

Answer: Thank you very much for your comments. We have corrected it.

16 Line 404: "the" no need, gramma issue

Answer: Thank you very much for your comments. We have corrected it.

17 Line 449 suggested, induced

Answer: Thank you very much for your comments. We have corrected it.

18 Line 457: showed

Answer: Thank you very much for your comments. We have corrected it.

19 Similar issues in other places. Please correct language on the whole manuscript.

Answer: Thank you very much for your comments. We have corrected the language carefully this time and promoted the language by the AJE Language organization. All changes have been marked in red in the manuscript.

