

**Figure S1. Correlations between soil physicochemical factors and** [**genus**](file:///C%3A%5CAdministrator%5CAppData%5CLocal%5Cyoudao%5Cdict%5CApplication%5C8.1.2.0%5Cresultui%5Chtml%5Cindex.html#/javascript:;) **of microbial community.** Main bacterial genera(A); Main fungal genera (B); The letter of \* indicates significant differences at *P* < 0.05 level, the letters of \*\* indicates extremely significant differences at *P* < 0.01 level.

**Table S1. Primers used for quantitative real-time PCR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Group** | **Prime Sequence (5′→3′)** | **Amplicon size** | **Annealing temp** | **Reference** |
| Total bateria | GTGCCAGCMGCCGCGGTAA (515F)GGACTACHVGGGTWTCTAAT (806R) | 299 bp | 56 °C | (Carini et al., 2016) |
| Total fungi | GCATCGATGAAGAACGCAGC (ITS3F)TCCTCCGCTTATTGATATGC (ITS4R) | 400 bp | 54 °C | (Kurzemann et al., 2020) |
| *Plasmodiophora brassicae* | AAACAACGAGTCAGCTTGAATGC (PbF)TTCGCGCACAAGCACTTG (PbR) | 104 bp | 59 °C | (Wallenhammar et al., 2012) |
| *Streptomyces* | GAGTACATCGAGATGCGCCGCAA (AMgeoF)GAGAAGAGGTCGTT-GCGCAGGTG (AMgeoR) | 104 bp | 66 °C | (Auffret et al., 2011) |

**References**

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