

Table S1. *T*-test of the relative abundance of dominant bacterial phyla and classes.

	Taxonomy	CK	CTM
Phylum	Proteobacteria	34.52±4.54a	26.74±0.13b
	Actinobacteria	24.13±2.82a	20.10±0.41a
	Acidobacteria	14.89±2.96a	18.43±1.06a
	Verrucomicrobia	6.75±0.69b	12.03±1.32a
	Chloroflexi	7.70±0.76b	10.76±0.72a
	Bacteroidetes	3.20±0.31a	2.55±0.07a
	Gemmatimonadetes	3.01±0.43a	2.34±0.17a
	Rokubacteria	1.61±0.15a	1.99±0.12a
	Planctomycetes	1.31±0.17a	1.73±0.33a
	Patescibacteria	1.03±0.09a	0.89±0.06a
	others	1.86±0.21a	2.44±0.12a
Class	Actinobacteria	24.13±2.82a	20.10±0.41a
	Alphaproteobacteria	23.90±3.14a	17.79±0.42b
	Verrucomicrobiae	6.75±0.69b	12.03±1.32a
	Gammaproteobacteria	7.49±1.01a	6.14±0.45a
	Subgroup_6	5.29±0.70a	5.61±0.16a
	Acidobacteriia	4.75±0.08a	5.93±0.65a
	KD4-96	3.59±0.68a	4.59±0.38a
	Blastocatellia	3.14±0.20a	4.70±0.21a
	Deltaproteobacteria	3.12±0.49a	2.81±0.09a
	Bacteroidia	3.16±0.31a	2.48±0.08a
	Gemmatimonadetes	3.01±0.43a	2.34±0.17a
	NC10	1.61±0.15a	1.99±0.12a
	Anaerolineae	0.79±0.16b	1.42±0.17a
	AD3	0.82±0.05b	1.32±0.14a
	Planctomycetacia	0.91±0.08a	1.19±0.16a
	TK10	0.83±0.04a	0.92±0.06a
	Holophagae	0.78±0.03a	0.90±0.08a
	others	5.92±0.49a	7.75±0.19a

Table S2. *T*-test of the relative abundance of dominant fungal phyla and classes.

	Taxonomy	CK	CTM
Phylum	Basidiomycota	67.69±0.57a	40.06±5.26b
	Ascomycota	28.36±0.68b	46.43±1.99a
	unclassified_k_Fungi	1.29±0.32a	7.22±1.46a
	Mortierellomycota	1.26±0.22b	3.51±0.20a
	Rozellomycota	0.52±0.01b	1.56±0.21a
	Mucoromycota	0.84±0.22a	0.61±0.08a
	Blastocladiomycota	0.04±0.01a	0.56±0.09a
	others	0.02±0.01b	0.05±0.01a
Class	Agaricomycetes	65.52±1.00a	37.14±5.63b
	Leotiomycetes	13.81±0.75a	17.96±1.57a
	Pezizomycetes	4.24±0.48b	10.66±0.90a
	unclassified_k_Fungi	1.29±0.32b	7.22±0.46a
	Sordariomycetes	2.85±0.07b	5.41±0.33a
	Pezizomycotina_cls_Incertae_sedis	3.01±0.31b	4.76±0.47a

Mortierellomycetes	1.25±0.22b	3.50±0.20a
Tremellomycetes	1.83±0.43a	2.27±0.47a
Dothideomycetes	1.94±0.26a	1.94±0.27a
unclassified_p_Ascomycota	0.47±0.01b	2.93±0.25a
Eurotiomycetes	0.88±0.09b	1.30±0.14a
unclassified_p_Rozellomycota	0.48±0.01b	1.36±0.21a
Umbelopsidomycetes	0.81±0.22a	0.53±0.09a
unclassified_p_Blastocladiomycota	0.01±0.01b	0.51±0.09a
others	1.61±0.05b	2.52±0.20a

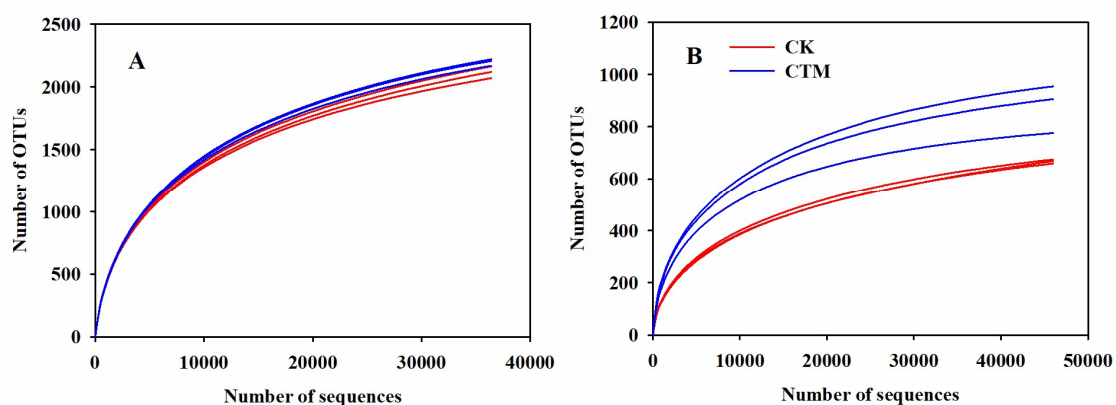


Figure S1. Rarefaction curves of the number of operational taxonomic units (OTUs) for soil bacterial (A) and fungal (B) communities at 97% sequence similarity. CTM, Crop tree management.