

Supplementary Materials:

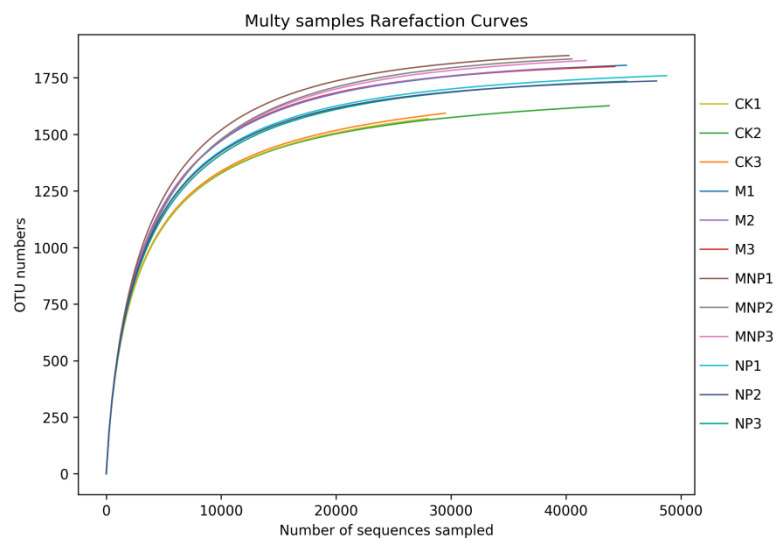


Figure S1 Multiple-sample rarefaction curve. M: manure; NP: chemical fertilizer; MNP: manure+chemical fertilizer; CK: no fertilizer.

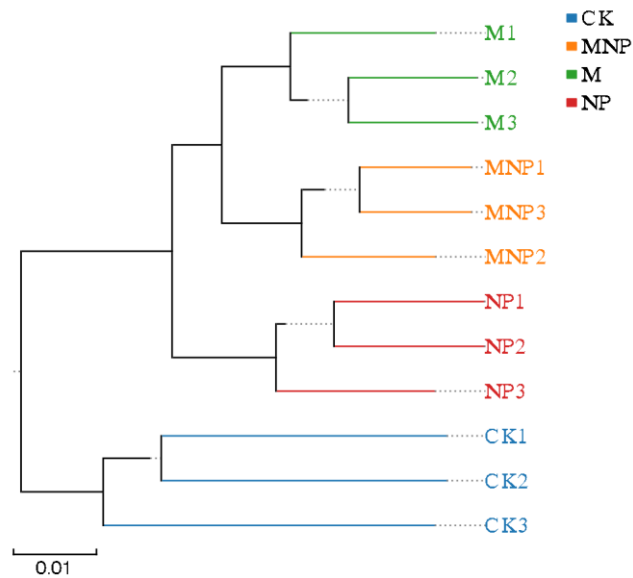


Figure 2. UPGMA clustering tree. M: manure; NP: chemical fertilizer; MNP: manure+chemical fertilizer; CK: no fertilizer. The distance legend equals to 0.01.

Table 1. ANOVA F-values and p-values of soil properties between groups.

	F	p-value
pH	0.998	0.442
AN	32.722	0.000
AP	26.463	0.000
AK	21.205	0.000
OM	11.023	0.003
TN	3.984	0.052
TP	12.271	0.002
TK	0.556	0.658

Table 2. Difference analysis of bacteria at phylum level.

Treatments	Proteobacteria	Actinobacteria	Acidobacteria	Gemmatimonadetes	Chloroflexi	Bacteroidetes	Nitrospirae	Rokubacteria	Verrucomicrobia	Firmicutes	Others	Unassigned
M	0.3522 a	0.1942 b	0.1764 a	0.0896 b	0.0862 b	0.0549 b	0.0116 b	0.0080 b	0.0075 a	0.0067 a	0.0128 b	0.0001 a
NP	0.3281 b	0.2360 a	0.1417 c	0.1025 a	0.0905 ab	0.0550 b	0.0128 b	0.0073 b	0.0067 a	0.0066 a	0.0127 b	0.0001 a
MNP	0.3466 a	0.1835 b	0.1399 c	0.0912 b	0.0847 b	0.1074 a	0.0092 c	0.0054 c	0.0088 a	0.0070 a	0.0162 a	0.0001 a
CK	0.3272 b	0.2322 a	0.1633 b	0.0867 b	0.0958 a	0.0362 b	0.0161 a	0.0119 a	0.0085 a	0.0064 a	0.0152 ab	0.0003 a

Table 3. Difference analysis of bacteria at genus level.

Treatments	uncultured_bacterium_f_Gemmatimonadae	uncultured_bacterium_c_Subgroup_6	Sphingomonas	MND1	uncultured_bacterium_c_MB-A2-108	Ellin6055	uncultured_bacterium_o_I_MCC26256	RB41	Arthrobacter	Steroidobacter	Others	Unassigned
M	0.0639 b	0.0753 a	0.0343 b	0.0308 b	0.0252 b	0.0183 b	0.0178 b	0.0223 a	0.0158 b	0.0196 ab	0.6766 b	0.0001 b
NP	0.0693 a	0.0556 c	0.0412 a	0.0294 b	0.0257 b	0.0244 a	0.0219 ab	0.0160 b	0.0243 a	0.0158 bc	0.6763 b	0.0001 b
MNP	0.0600 b	0.0588 c	0.0393 a	0.0224 c	0.0175 c	0.0208 b	0.0179 b	0.0163 b	0.0184 b	0.0211 a	0.7076 a	0.0001 b
CK	0.0627 b	0.0634 b	0.0379 ab	0.0450 a	0.0351 a	0.0186 b	0.0244 a	0.0246 a	0.0155 b	0.0137 c	0.6588 b	0.0003 a