

Supplementary material

Table S1. Primers and qPCR conditions for the determination of fungal and bacterial gene copy numbers.

Primers	qPCR conditions	References
qPCR for total fungi: Fung5 F and FF390 R	15 min at 95 °C, 40 cycles of 30 s at 94 °C, 30 s at 52 °C and 60 s at 72 °C. For melting curve: 15 s at 95 °C, 60 s to 60 °C, 95 °C for 30 s and final extension of 15 s at 60 °C.	[33]
qPCR for total bacteria: Ba519 F and Ba907 R	15min at 95 °C, 40 cycles of 30 s at 94 °C, 30 s at 50 °C and 60 s at 72 °C. For melting curve: 15 s at 95 °C, 60 s to 60 °C, 95 °C for 30 s and final extension of 15 s at 60 °C.	[34]

Table S2. Effect of treatments on metabarcoding (16S rRNA) diversity. Mean values (n=3) ± SD. Probability values from three-way ANOVA (ns: non-significant) for the effects of plant growth, bioaugmentation, amendment and their interactions are shown below. H': Shannon's index; S': Simpson's index; J': Pielou's evenness; rR: rarefied richness. Compost: amended with composted horse manure; Cow slurry: amended with dried cow slurry.

			H'	S'	J'	rR
<i>Brassica</i>	Non-bioaugmented	Control	6.220±0.2	0.992±0.002	0.748±0.02	3800±160
		Compost	6.265±0.2	0.990±0.003	0.745±0.02	4129±211
		Cow slurry	6.320±0.1	0.993±0.002	0.763±0.01	3672±117
	Bioaugmented	Control	6.114±0.2	0.992±0.002	0.737±0.02	3562±235
		Compost	6.258±0.0	0.989±0.000	0.740±0.00	4133±74
		Cow slurry	6.340±0.2	0.993±0.002	0.760±0.01	3692±256
Unplanted	Non-bioaugmented	Control	6.165±0.1	0.992±0.002	0.740±0.02	3799±55
		Compost	6.220±0.2	0.990±0.004	0.741±0.03	4011±244
		Cow slurry	6.459±0.1	0.995±0.000	0.777±0.01	3874±237
	Bioaugmented	Control	6.303±0.1	0.992±0.001	0.752±0.01	3923±137
		Compost	6.215±0.3	0.991±0.003	0.738±0.02	4050±270
		Cow slurry	6.184±0.3	0.990±0.005	0.743±0.03	3762±198
Plant (P)			ns	ns	ns	ns
Bioaugmentation (B)			ns	ns	ns	ns
Amendment (A)			ns	0.007	0.021	0.000
P x B			ns	ns	ns	ns
P x A			ns	ns	ns	ns
B x A			ns	ns	ns	ns
P x B x A			ns	ns	ns	ns