

## Supplementary material for

### A single application of fertiliser or manure to a cropping field has limited long-term effects on soil microbial communities

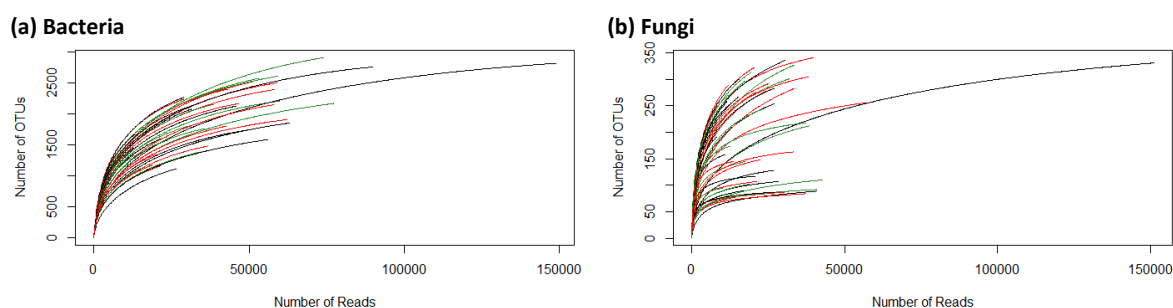
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**Fig. S1.** Rarefaction curves for bacteria (a) and fungi (b).

**Table S1. Results of PERMANOVA of Generalised UniFrac distances testing the effect of amendment type, placement depth and sampling location on soil microbial communities.**

Global tests	Bacteria		Fungi	
	Pseudo-F	P -value	Pseudo-F	P -value
Amendment type	1.21	0.180	1.60	<b>0.001</b>
Placement depth	0.88	0.568	0.81	0.636
Sampling location	31.6	<b>0.0001</b>	6.0	<b>0.0001</b>
Amendment type × Placement depth	0.79	0.818	1.35	<b>0.017</b>
Amendment type × Sampling location	0.95	0.524	0.98	0.533
Placement depth × Sampling location	0.85	0.611	1.02	0.425
Amendment type × Placement depth × Sampling location	0.77	0.846	0.95	0.600
Pairwise tests	Bacteria		Fungi	
	t-statistic	P-value	t-statistic	P-value
Amendment				
PL, NIL	1.11	0.204	1.35	<b>0.006</b>
PL, FERT	0.87	0.688	0.97	0.588
NIL, FERT	1.32	<b>0.035</b>	1.44	<b>0.001</b>
Placement				

DEEP RIP, SURFACE	0.94	0.565	0.96	0.639
Location				
0-10 cm, 25-40 cm	5.62	<b>0.0001</b>	2.45	<b>0.0001</b>
	Bacteria		Fungi	
Pairwise tests	t-statistic	P-value	t-statistic	P-value
Within DEEP RIP				
PL, NIL	0.93	0.662	1.20	0.054
PL, FERT	0.92	0.591	1.23	<b>0.019</b>
NIL, FERT	1.32	<b>0.025</b>	1.38	<b>0.004</b>
Within SURFACE				
PL, NIL	1.03	0.392	1.21	<b>0.041</b>
PL, FERT	0.86	0.779	1.00	0.501
NIL, FERT	0.95	0.620	1.24	<b>0.022</b>
Within PL				
DEEP RIP, SURFACE	0.83	0.831	1.06	0.302
Within NIL				
DEEP RIP, SURFACE	0.94	0.618	1.03	0.369
Within FERT				
DEEP RIP, SURFACE	0.96	0.459	1.21	<b>0.035</b>
Within 0-10 cm				
PL, NIL	1.02	0.317	1.08	0.227
PL, FERT	1.06	0.290	0.91	0.716
NIL, FERT	1.12	0.201	1.12	0.134
Within 25-40 cm				
PL, NIL	1.03	0.414	1.14	0.066
PL, FERT	0.73	0.883	0.92	0.739
NIL, FERT	1.30	0.078	1.38	<b>0.022</b>
Within PL				
0-10 cm, 25-40 cm	3.01	<b>0.0002</b>	1.32	<b>0.017</b>
Within NIL				
0-10 cm, 25-40 cm	3.90	<b>0.0002</b>	1.92	<b>0.0001</b>
Within FERT				
0-10 cm, 25-40 cm	3.21	<b>0.0001</b>	1.60	<b>0.001</b>
Within 0-10 cm				
DEEP RIP, SURFACE	0.83	0.795	1.06	0.302
Within 25-40 cm				
DEEP RIP, SURFACE	0.97	0.432	0.93	0.698
Within DEEP RIP				
0-10 cm, 25-40 cm	3.98	<b>0.0001</b>	2.05	<b>0.0001</b>
Within SURFACE				
0-10 cm, 25-40 cm	4.07	<b>0.0001</b>	1.70	<b>0.0001</b>
	Bacteria		Fungi	

Pairwise tests	t-statistic	P(MC)	t-statistic	P(MC)
Within DEEP RIP, 0-10 cm				
PL, NIL	0.81	0.620	0.98	0.474
PL, FERT	0.92	0.501	1.30	0.160
NIL, FERT	0.98	0.450	1.30	0.154
Within DEEP RIP, 25-40 cm				
PL, NIL	0.97	0.469	1.10	0.316
PL, FERT	0.87	0.573	1.03	0.398
NIL, FERT	1.35	0.134	1.27	0.166
Within SURFACE, 0-10 cm				
PL, NIL	1.02	0.390	1.10	0.319
PL, FERT	0.99	0.438	1.12	0.317
NIL, FERT	1.01	0.409	1.17	0.253
Within SURFACE, 25-40 cm				
PL, NIL	0.92	0.531	1.05	0.382
PL, FERT	0.81	0.642	0.85	0.632
NIL, FERT	0.87	0.562	1.06	0.354
Within PL, 0-10 cm				
DEEP RIP, SURFACE	0.76	0.698	1.12	0.295
Within PL, 25-40 cm				
DEEP RIP, SURFACE	0.88	0.562	0.92	0.536
Within NIL, 0-10 cm				
DEEP RIP, SURFACE	0.85	0.590	1.29	0.150
Within NIL, 25-40 cm				
DEEP RIP, SURFACE	0.99	0.443	0.85	0.609
Within FERT, 0-10 cm				
DEEP RIP, SURFACE	0.91	0.556	1.22	0.212
Within FERT, 25-40 cm				
DEEP RIP, SURFACE	0.94	0.460	1.00	0.431
Within PL, DEEP RIP				
0-10 cm, 25-40 cm	1.96	<b>0.017</b>	1.24	0.202
Within PL, SURFACE				
0-10 cm, 25-40 cm	2.52	<b>0.006</b>	1.06	0.347
Within NIL, DEEP RIP				
0-10 cm, 25-40 cm	3.07	<b>0.003</b>	1.72	<b>0.027</b>
Within NIL, SURFACE				
0-10 cm, 25-40 cm	2.61	<b>0.004</b>	1.37	0.115
Within FERT, DEEP RIP				
0-10 cm, 25-40 cm	2.45	<b>0.005</b>	1.37	0.117
Within FERT, SURFACE				
0-10 cm, 25-40 cm	2.27	<b>0.009</b>	1.28	0.158