

Table S1. Soil chemical analysis

Mg/kg	C		N		P		Ca		Cr		Cu		Fe	
RSN	17,7	0,57	1,29	0,26	909,8	15,92	3577,0	465,58	41,2	3,05	44,9	2,67	36543,3	2303,39
BSN	18,9	0,72	1,17	0,02	957,9	26,36	3643,3	330,28	46,9	2,19	49,0	2,29	40725,3	1702,01
RSP	24,7	5,89	1,38	0,19	736,8	22,67	3652,1	323,88	51,4	6,06	42,6	4,21	39168,3	3265,41
BSP	16,5	1,93	0,90	0,12	667,3	48,31	2792,3	326,32	56,3	1,39	51,9	2,38	45888,6	1176,33
Mg/kg	K		Li		Mg		Mn		Na		Ni		Al	
RSN	1011,6	46,52	9,4	0,66	1898,7	83,78	2226,5	69,05	214,9	8,35	18,1	1,05	54760,7	2916,62
BSN	1086,5	137,07	10,9	0,46	2035,1	43,69	2339,6	121,24	218,8	12,84	19,1	1,18	59389,6	2897,61
RSP	1154,5	66,28	9,0	0,80	2102,5	123,02	2916,6	96,44	247,9	7,12	14,9	1,27	38931,5	3524,19
BSP	1112,2	116,77	11,7	0,24	2240,6	79,46	2693,9	126,36	229,1	8,61	17,6	0,45	51222,8	1459,03
Mg/kg	Pb		S		Si		Sr		Ti		V		Zn	
RSN	13,2	2,96	672,1	26,70	4081,7	160,16	36,2	2,22	1541,2	64,57	140,4	8,57	79,1	2,76
BSN	11,3	0,47	712,5	30,27	3727,4	175,67	38,4	4,32	1621,3	17,14	156,3	5,78	82,7	2,64
RSP	12,4	1,07	698,6	48,41	4155,5	229,70	34,3	2,00	1565,9	94,51	149,5	10,49	81,3	4,82
BSP	13,6	0,41	499,7	38,86	4438,1	171,98	29,1	2,26	1433,0	16,39	167,1	5,53	85,4	3,90

RSN: rhizosphere soil of *N. obliqua* growing in native forest. RSP: rhizosphere soil of *N. obliqua* growing in pine plantation. BSN: bulk soil of native forest. BSP: bulk soil of pine plantation.

Table S2. Trimming summary, showing the number of initial bacterial reads, reads that pass quality control, reads after denoising step, number of sequences after merging them by their 3' and resulting non-chimeric sequences.

Samples	Input	Filtered	Denoised	Merged	Non-chimeric
BSN1	160649	98101	91471	70932	67284
BSN2	136600	85618	79658	61303	57288
BSN3	138911	85166	79739	62669	59931
BSP1	145496	85902	81280	66796	64564
BSP2	165190	105107	100893	85951	81803
BSP3	127763	80581	76077	63280	61213
RSN1	63916	24563	21589	14014	13402
RSN2	63494	25029	21792	13704	13048
RSN3	71173	27932	23811	13055	12130
RSP1	175343	113491	107254	85369	81691
RSP2	149117	90475	84641	65716	62783
RSP3	154433	99508	94369	77355	73792

RSN: Rhizosphere soil of *N. obliqua* growing in native forest. RSP: Rhizosphere soil of *N. obliqua* growing in pine plantation. BSN: Bulk soil of native forest. BSP: Bulk soil of pine plantation.

Table S3. Trimming summary, showing the number of initial fungal reads, reads that pass quality control, number of sequences after merging them by their 3' ends, and resulting non-chimeric amplicons.

Samples	Raw Input	Denoised	Merged	Non-Chimeric
BSN1	185985	97268	94307	93325
BSN2	217344	110268	105475	103646
BSN3	194331	95921	94111	93254
BSP1	211748	90289	87448	86216
BSP2	218532	100087	98684	97175
BSP3	186659	93036	90707	89566
RSN1	212649	117619	114014	112601
RSN2	215360	109185	106345	105720
RSN3	106307	53053	50118	46224
RSP1	199973	104246	102014	97252
RSP2	184033	95987	93454	90134
RSP3	202052	91104	86856	86146

RSN: Rhizosphere soil of *N. obliqua* growing in native forest. RSP: Rhizosphere soil of *N. obliqua* growing in pine plantation. BSN: Bulk soil of native forest. BSP: Bulk soil of pine plantation.

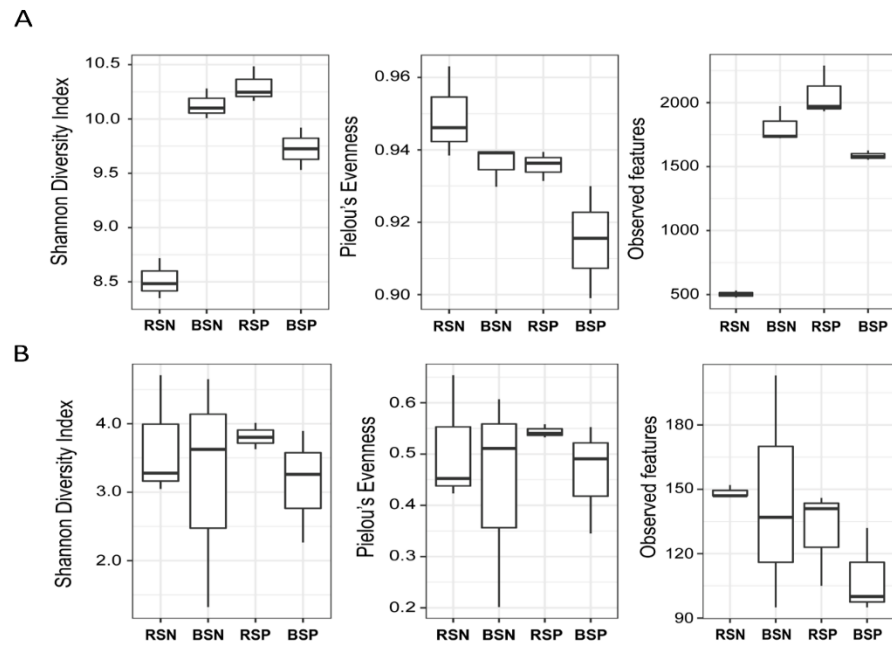


Figure S1: α -diversity measurements of (A) bacterial and (B) fungal: Shannon diversity index, Pielou's evenness and Observed features as boxplots.