Supplementary

Table S1 Shifts in relative abundance of the dominated bacterial and fungal communities at phylum level at different depths in different stand ages.

Stand age	Depth	%							
		Bacteria					Fungi		
		Acidobacteria	Proteobacteria	Actinobacteria	Chloroflexi	Firmicutes	Ascomycota	Basidiomycota	Zygomycota
3a	D1	37.72±1.96cd	38.80±1.58a	13.19±0.48b	3.28±0.45c	0.59±0.09a	65.94±0.62b	20.65±3.07ab	8.84±0.25a
	D2	44.69±2.37a	32.64±2.59a	11.11±0.50a	5.32±0.45b	2.24±0.89b	70.28±3.44a	9.99±2.70b	18.21±0.81a
	D3	45.20±2.96b	30.41±1.40a	11.04±1.05a	7.08±0.20c	2.26±0.90b	65.21±1.71bc	18.73±0.50b	14.86±1.19bc
6a	D1	43.42±5.22bc	34.99±3.56ab	11.79±2.47b	3.41±0.51c	0.41±0.02a	69.06±3.94ab	20.65±2.23ab	13.51±1.68a
	D2	49.57±8.16a	27.05±6.17ab	10.45±2.1a	6.32±0.62b	2.04±0.08b	75.69±5.03a	11.49±1.49b	11.91±0.84b
	D3	53.23±6.91a	21.98±6.41bc	8.67±1.38ab	9.87±2.82c	2.18±0.76b	78.31±5.35a	9.77±1.50c	10.53±3.02c
12a	D1	45.40±0.56abc	32.73±0.74b	11.30±0.49b	3.73±0.28c	0.28±0.02a	60.65±1.79bc	25.97±0.88a	12.85±0.91a
	D2	53.65±5.39a	19.01±2.98b	10.37±1.84ab	10.31±1.40a	1.43±0.09b	70.33±3.49a	21.14±2.93a	5.38±0.22b
	D3	54.79±8.74a	17.73±1.58d	6.10±1.25c	14.32±2.72b	2.46±0.46b	63.33±6.03bc	29.52±1.66a	4.55±0.18d
18a	D1	51.55±2.23ab	23.69±0.63d	8.73±0.40c	6.11±0.81a	2.18±0.05a	59.63±2.62bc	25.72±1.66a	12.42±0.64a
	D2	51.17±4.69a	14.91±1.78c	6.12±0.87c	8.72±0.36b	11.45±1.69a	54.51±8.29b	18.43±2.08a	24.27±4.09a
	D3	56.40±1.21a	13.18±2.22d	6.34±1.38c	8.87±0.74c	8.99±1.53a	56.38±3.68c	12.70±3.98bc	28.08±2.71a
25a	D1	53.36±2.52a	26.32±0.92cd	7.99±0.31c	4.34±0.17b	1.19±0.48a	51.37±6.45c	25.34±4.59a	10.31±3.41a
	D2	51.12±7.06a	16.63±1.38c	6.64±0.69c	11.79±0.48a	7.41±0.98a	60.85±4.62ab	19.56±1.31a	15.21±1.16ab
	D3	49.23±6.08ab	13.86±1.41d	8.67±0.25ab	16.15±0.73b	6.21±0.32a	67.38±4.07bc	11.95±2.04b	19.25±1.44b
32a	D1	44.91±2.57abc	28.14±1.03c	7.99±0.21c	4.34±0.10b	1.19±0.06a	72.94±7.44ab	16.08±0.42b	9.06±0.25a
	D2	45.73±2.06a	23.06±3.15b	7.81±0.42bc	15.36±1.26a	2.54±0.84b	66.60±5.44ab	25.48±7.38a	5.74±1.56b
	D3	43.49±3.46b	19.19±1.48cd	7.22±1.17bc	22.65±3.83a	2.64±0.84b	70.48±4.79ab	18.11±4.70b	7.32±2.63d
49a	D1	33.46±8.73d	27.88±2.69c	15.77±1.66a	3.41±0.08c	0.41±0.04a	75.57±2.00a	13.72±0.82b	8.58±1.15a
	D2	44.81±2.26a	24.69±2.06b	9.36±0.67ab	11.79±0.87a	2.65±0.17b	70.43±3.22a	19.24±1.82a	6.27±1.67b
	D3	45.30±2.68b	22.21±1.82bc	8.06±1.06b	15.70±2.11b	2.94±0.42b	79.37±5.73a	8.59±0.67c	11.23±2.84cd

Note: Significant differences between the seven age soils were determined using one-way ANOVA at $P < 0.05$. The data are shown as the means ± SD ($n = 9$). Different letters represent significant differences between the same soil depth of different stand ages at $P< 0.05$.