

Figure s1 Rarefaction curves for soil fungi in Hulunbeir.

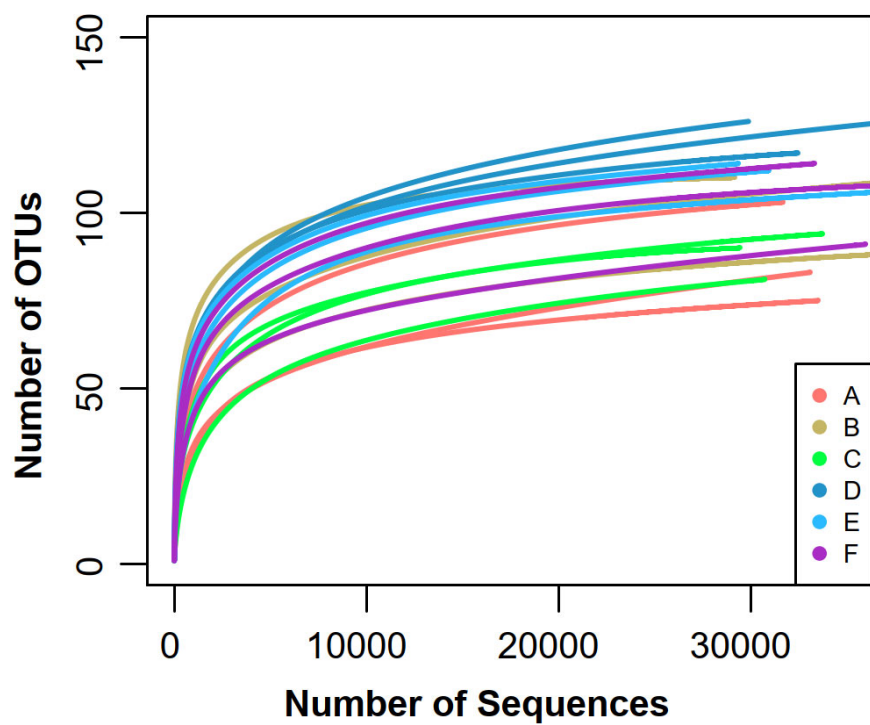


Table s1 One-way ANOVA test of the relative abundance of the dominant soil fungal taxa.

		F	P	
Phylum	Ascomycota	2.73	0.07	
	Basidiomycota	1.65	0.22	
	Mucormycota	0.88	0.52	
	Zoopagomycota	5.30	0.01**	
	Chytridiomycota	0.56	0.73	
	Blastocladiomycota	0.94	0.49	
Order	Hypocreales	0.70	0.63	
	Mortierellales	1.09	0.41	
	Agaricales	2.58	0.08	
	Archaeorhizomycetales	3.32	0.04*	
	Chaetothyriales	1.36	0.31	
	Pleosporales	0.29	0.91	
	Pezizales	4.27	0.02*	
	Capnodiales	1.42	0.29	
	Glomerellales	2.04	0.14	
	Tremellales	2.08	0.14	
	Family	Mortierellaceae	1.09	0.41
		Archaeorhizomycetaceae	3.32	0.04*
		Pyronemataceae	2.61	0.08
Herpotrichiellaceae		4.09	0.02*	
Teratosphaeriaceae		1.42	0.29	
Pleosporaceae		0.81	0.57	
Plectosphaerellaceae		2.04	0.14	
Ascobolaceae		2.88	0.06	
Symptoventuriaceae		1.30	0.33	
Malasseziaceae		0.66	0.66	

Note: **: $P < 0.01$, *: $P < 0.05$.

Table s2 Post hoc test of the relative abundance in the dominant soil fungal taxa.

	A	B	C	D	E	F
Phylum						
Ascomycota	93.88±2.62a	83.17±9.37a	94.53±2.21a	82.74±6.72a	65.18±23.45a	86.64±7.71a
Basidiomycota	2.76±0.72a	11.32±8.26a	2.39±1.14a	8.06±3.75a	11.5±8.37a	7.27±4.31a
Mucormycota	2.39±1.94a	4.05±3.45a	2.13±0.69a	6.34±5.56a	20.00±29.90a	3.72±2.35a
Zoopagomycota	0.01±0.02a	0.04±0.04ab	0.00±0.01a	0.03±0.02ab	0.11±0.05b	0.02±0.02a
Chytridiomycota	0.01±0.01a	0.01±0.01a	0.01±0.01a	0.02±0.03a	0.02±0.04a	0.00±0.00a
Blastocladiomycota	0.01±0.01a	0.03±0.04a	0.00±0.00a	0.01±0.02a	0.00±0.00a	0.00±0.00a
Order						
Hypocreales	6.53±0.53a	5.03±1.45a	6.59±1.58a	6.23±1.02a	5.87±2.96a	7.32±0.75a
Mortierellales	0.76±0.63a	1.18±0.81a	0.79±0.38a	1.22±1.14a	19.54±30.26a	2.6±1.92a
Agaricales	0.60±0.19a	7.45±6.82a	0.89±0.87a	2.00±0.77a	5.24±2.40a	1.42±0.15a
Archaeorhizomycetales	0.00±0.00a	0.03±0.02a	2.28±3.66ab	0.84±1.17ab	2.57±2.18ab	5.91±2.74b
Chaetothyriales	1.16±1.23a	1.79±1.08a	0.73±0.31a	1.65±0.04a	2.22±0.50a	1.43±0.72a
Pleosporales	1.66±2.38a	1.55±1.22a	0.96±1.11a	1.93±1.44a	0.90±0.60a	1.09±0.70a
Pezizales	0.55±0.61a	3.06±1.84a	0.87±0.57a	2.77±1.60a	0.29±0.09a	0.36±0.23a
Capnodiales	0.21±0.29a	1.04±1.34a	0.13±0.06a	0.2±0.15a	0.03±0.01a	0.01±0.01a
Glomerellales	0.17±0.15a	0.28±0.24a	0.04±0.05a	0.08±0.06a	0.06±0.07a	0.01±0.01a
Tremellales	0.02±0.03a	0.17±0.17a	0.06±0.04a	0.08±0.05a	0.01±0.01a	0.01±0.01a
Mortierellaceae	0.76±0.63a	1.18±0.81a	0.79±0.38a	1.22±1.14a	19.54±30.25a	2.6±1.92a
Archaeorhizomycetaceae	0.00±0.00a	0.03±0.02a	2.28±3.66ab	0.84±1.17ab	2.57±2.18ab	5.91±2.74b
Pyrenomataceae	0.54±0.61a	1.35±1.52a	0.82±0.54a	2.51±1.52a	0.22±0.12a	0.22±0.07a
Herpotrichiellaceae	0.05±0.04a	0.32±0.41a	0.09±0.07a	0.34±0.14a	0.82±0.27a	0.82±0.49a
Teratosphaeriaceae	0.21±0.29a	1.04±1.34a	0.13±0.06a	0.20±0.15a	0.03±0.01a	0.01±0.01a
Pleosporaceae	0.09±0.13a	0.33±0.31a	0.39±0.57a	0.66±1.01a	0.03±0.02a	0.01±0.01a
Plectosphaerellaceae	0.17±0.15a	0.28±0.24a	0.04±0.05a	0.08±0.06a	0.06±0.07a	0.01±0.01a
Ascobolaceae	0.00±0.01a	0.09±0.06a	0.01±0.01a	0.09±0.05a	0.05±0.03a	0.06±0.04a

Symportventuriaceae	0.01±0.01a	0.05±0.05a	0.00±0.00a	0.07±0.09a	0.02±0.03a	0.00±0.01a
Malasseziaceae	0.01±0.01a	0.05±0.08a	0.02±0.03a	0.00±0.00a	0.01±0.01a	0.00±0.00a

Notes: TukeyHSD method was adopted in the post hoc test. The values (mean ± SD) with different letters were significantly different from one another ($P < 0.05$).

Table s3 One-way ANOVA results of soil fungal α diversity between study sites

	Index	F	P
The whole fungi	Faith's PD	6.33	0.00**
	Species richness	5.52	0.01**
Ascomycota	Faith's PD	5.01	0.01**
	Species richness	4.59	0.14
Basidiomycota	Faith's PD	4.4	0.02*
	Species richness	4.26	0.02*
Mucoromycota	Faith's PD	1.24	0.35
	Species richness	2.47	0.09

Note: **: $P < 0.01$, *: $P < 0.05$.