

Table S5 The effect of explanatory variables on epiphytic and endophytic alpha and beta diversity based on the multiple linear regression model

		Estimate	Std. Error	t value	Pr(> t)
Alpha diversity of epiphytic fungi	MEM1	3.162	0.983	3.216	0.001
	MEM2	24.493	0.939	26.090	< 0.001
	MEM3	5.328	1.301	4.096	0.000
	MEM4	-2.494	0.960	-2.599	0.009
	MEM5	-3.450	0.931	-3.706	0.000
	MEM6	-7.941	1.105	-7.184	0.000
	MAP	9.191	1.933	4.754	<0.001
	Temperature seasonality	-20.607	1.576	-13.072	<0.001
	Precipitation seasonality	15.129	1.543	9.807	<0.001
	PCoA1	-0.010	0.002	-6.148	0.000
	PCoA2	0.008	0.001	5.857	0.000
	PCoA3	-0.009	0.002	-5.909	0.000
	PCoA4	-0.006	0.001	-4.248	0.000
	PCoA7	0.005	0.001	3.193	0.001
	PCoA9	-0.003	0.001	-2.332	0.020
	PCoA10	0.004	0.001	2.856	0.004
	PCoA14	-0.005	0.001	-3.267	0.001
	PCoA17	-0.005	0.002	-2.840	0.005
	PCoA18	0.005	0.001	3.757	0.000
	PCoA19	-0.004	0.002	-2.341	0.019
	PCoA20	0.009	0.001	6.352	0.000
	PCoA22	0.004	0.002	2.684	0.007
	PCoA25	0.003	0.001	2.366	0.018
	PCoA27	0.003	0.001	2.510	0.012
	PCoA29	0.005	0.001	3.669	0.000
	PCoA30	0.004	0.001	2.920	0.004
	PCoA34	0.005	0.001	3.335	0.001
	PCoA39	0.005	0.001	3.513	0.000
	PCoA41	-0.004	0.001	-2.687	0.007
	PCoA42	0.004	0.001	2.569	0.010
	PCoA45	-0.003	0.001	-2.223	0.026
	PCoA47	-0.008	0.002	-4.990	0.000
	PCoA53	0.003	0.001	2.479	0.013
	PCoA56	0.008	0.002	5.240	0.000
	PCoA57	0.009	0.001	6.080	0.000

	PCoA59	0.003	0.001	2.074	0.038
	PCoA60	0.004	0.001	2.939	0.003
	PCoA64	0.003	0.001	2.006	0.045
	PCoA66	0.005	0.002	3.065	0.002
	PCoA68	0.003	0.001	2.097	0.036
	PCoA71	-0.007	0.001	-5.317	0.000
	PCoA75	0.003	0.001	2.355	0.019
	PCoA78	-0.004	0.001	-3.136	0.002
	PCoA81	0.004	0.001	2.830	0.005
	PCoA84	-0.004	0.002	-2.609	0.009
	PCoA86	0.003	0.001	2.349	0.019
	PCoA87	-0.004	0.001	-3.099	0.002
	PCoA88	-0.003	0.001	-2.293	0.022
	PCoA92	-0.004	0.001	-3.074	0.002
	PCoA93	0.004	0.001	2.872	0.004
	PCoA94	-0.003	0.001	-2.270	0.023
	PCoA95	0.004	0.001	3.032	0.002
	PCoA99	-0.009	0.001	-6.220	0.000
	PCoA100	0.006	0.001	4.064	0.000
	PCoA101	0.007	0.002	4.286	0.000
	PCoA104	0.004	0.001	2.656	0.008
	PCoA109	0.008	0.001	5.648	0.000
	PCoA110	0.005	0.001	3.334	0.001
	PCoA116	-0.004	0.002	-2.177	0.030
	PCoA125	-0.004	0.001	-2.521	0.012
	PCoA126	0.003	0.001	2.046	0.041
	PCoA131	0.004	0.001	3.121	0.002
	PCoA132	0.004	0.001	2.864	0.004
	PCoA140	0.003	0.001	2.208	0.027
	PCoA142	-0.004	0.001	-2.741	0.006
	PCoA146	0.003	0.001	2.275	0.023
	PCoA148	-0.008	0.002	-4.823	0.000
	PCoA151	0.006	0.001	4.772	0.000
	PCoA160	0.005	0.001	4.004	0.000
Beta diversity of epiphytic fungi	MEM1	0.006	0.002	3.859	0.000
	MEM2	0.027	0.002	18.085	< 0.001
	MEM3	-0.011	0.002	-5.476	0.000
	MEM4	-0.007	0.002	-4.691	0.000

MEM5	-0.005	0.001	-3.483	0.001
MEM7	0.004	0.001	2.699	0.007
MEM8	-0.006	0.001	-3.877	0.000
MEM9	0.008	0.002	5.425	0.000
MAP	0.021	0.003	7.156	<0.001
Temperature seasonality	-0.010	0.002	-4.221	<0.001
Precipitation seasonality	0.006	0.002	2.489	0.013
PCoA1	-0.010	0.002	-6.148	0.000
PCoA2	0.008	0.001	5.857	0.000
PCoA3	-0.009	0.002	-5.909	0.000
PCoA4	-0.006	0.001	-4.248	0.000
PCoA7	0.005	0.001	3.193	0.001
PCoA9	-0.003	0.001	-2.332	0.020
PCoA10	0.004	0.001	2.856	0.004
PCoA14	-0.005	0.001	-3.267	0.001
PCoA17	-0.005	0.002	-2.840	0.005
PCoA18	0.005	0.001	3.757	0.000
PCoA19	-0.004	0.002	-2.341	0.019
PCoA20	0.009	0.001	6.352	0.000
PCoA22	0.004	0.002	2.684	0.007
PCoA25	0.003	0.001	2.366	0.018
PCoA27	0.003	0.001	2.510	0.012
PCoA29	0.005	0.001	3.669	0.000
PCoA30	0.004	0.001	2.920	0.004
PCoA34	0.005	0.001	3.335	0.001
PCoA39	0.005	0.001	3.513	0.000
PCoA41	-0.004	0.001	-2.687	0.007
PCoA42	0.004	0.001	2.569	0.010
PCoA45	-0.003	0.001	-2.223	0.026
PCoA47	-0.008	0.002	-4.990	0.000
PCoA53	0.003	0.001	2.479	0.013
PCoA56	0.008	0.002	5.240	0.000
PCoA57	0.009	0.001	6.080	0.000
PCoA59	0.003	0.001	2.074	0.038
PCoA60	0.004	0.001	2.939	0.003
PCoA64	0.003	0.001	2.006	0.045
PCoA66	0.005	0.002	3.065	0.002
PCoA68	0.003	0.001	2.097	0.036

	PCoA71	-0.007	0.001	-5.317	0.000
	PCoA75	0.003	0.001	2.355	0.019
	PCoA78	-0.004	0.001	-3.136	0.002
	PCoA81	0.004	0.001	2.830	0.005
	PCoA84	-0.004	0.002	-2.609	0.009
	PCoA86	0.003	0.001	2.349	0.019
	PCoA87	-0.004	0.001	-3.099	0.002
	PCoA88	-0.003	0.001	-2.293	0.022
	PCoA92	-0.004	0.001	-3.074	0.002
	PCoA93	0.004	0.001	2.872	0.004
	PCoA94	-0.003	0.001	-2.270	0.023
	PCoA95	0.004	0.001	3.032	0.002
	PCoA99	-0.009	0.001	-6.220	0.000
	PCoA100	0.006	0.001	4.064	0.000
	PCoA101	0.007	0.002	4.286	0.000
	PCoA104	0.004	0.001	2.656	0.008
	PCoA109	0.008	0.001	5.648	0.000
	PCoA110	0.005	0.001	3.334	0.001
	PCoA116	-0.004	0.002	-2.177	0.030
	PCoA125	-0.004	0.001	-2.521	0.012
	PCoA126	0.003	0.001	2.046	0.041
	PCoA131	0.004	0.001	3.121	0.002
	PCoA132	0.004	0.001	2.864	0.004
	PCoA140	0.003	0.001	2.208	0.027
	PCoA142	-0.004	0.001	-2.741	0.006
	PCoA146	0.003	0.001	2.275	0.023
	PCoA148	-0.008	0.002	-4.823	0.000
	PCoA151	0.006	0.001	4.772	0.000
	PCoA160	0.005	0.001	4.004	0.000
Alpha diversity of endophytic fungi	MEM1	-7.776	0.808	-9.628	< 0.001
	MEM2	7.852	0.739	10.631	< 0.001
	MEM3	-4.250	1.008	-4.215	0.000
	MEM4	-1.863	0.754	-2.472	0.014
	MEM5	2.215	0.758	2.923	0.004
	MEM6	4.273	0.886	4.822	0.000
	MEM7	2.387	0.738	3.232	0.001
	MEM8	-0.459	0.744	-0.617	0.537
	MEM9	1.772	0.740	2.394	0.017

	MAP	3.472	1.418	2.448	0.015
	Temperature seasonality	-6.942	1.208	-5.748	<0.001
	Precipitation seasonality	15.942	1.099	14.512	<0.001
	PCoA40	3.112	0.637	4.889	0.000
	PCoA50	2.320	0.618	3.755	0.000
	PCoA67	-1.736	0.624	-2.782	0.006
	PCoA69	-2.202	0.635	-3.466	0.001
	PCoA82	-1.311	0.621	-2.112	0.035
	PCoA87	1.256	0.638	1.968	0.049
	PCoA103	2.482	0.617	4.023	0.000
	PCoA108	2.252	0.617	3.650	0.000
	PCoA119	-1.327	0.617	-2.150	0.032
	PCoA124	-4.130	0.617	-6.694	0.000
	PCoA132	-2.795	0.617	-4.530	0.000
	PCoA142	-2.774	0.654	-4.242	0.000
	PCoA164	1.399	0.621	2.254	0.024
Beta	MAP	0.037	0.004	8.186	<0.001
diversity of	Temperature seasonality	0.017	0.004	4.562	<0.001
endophytic	Precipitation seasonality	0.022	0.003	6.494	<0.001
fungi	MEM1	-0.022	0.002	-8.899	< 0.001
	MEM2	0.023	0.002	10.354	< 0.001
	MEM3	0.007	0.003	2.237	0.026
	MEM4	-0.007	0.002	-3.312	0.001
	MEM8	0.008	0.002	3.586	0.000
	PCoA40	0.007	0.002	3.469	0.001
	PCoA51	0.005	0.002	2.295	0.022
	PCoA62	0.004	0.002	2.089	0.037
	PCoA67	-0.005	0.002	-2.363	0.018
	PCoA68	0.008	0.002	3.739	0.000
	PCoA74	-0.005	0.002	-2.634	0.009
	PCoA87	-0.006	0.002	-3.075	0.002
	PCoA91	0.005	0.002	2.274	0.023
	PCoA96	0.007	0.002	2.791	0.005
	PCoA119	0.006	0.002	3.131	0.002
	PCoA124	-0.010	0.002	-4.831	0.000
	PCoA130	0.006	0.002	2.771	0.006
	PCoA142	-0.005	0.002	-2.544	0.011
	PCoA147	-0.009	0.002	-4.240	0.000

PCoA153	-0.007	0.002	-2.959	0.003
PCoA162	0.006	0.002	2.839	0.005
PCoA166	-0.005	0.002	-2.370	0.018