

Table S4 One-sample two-sides t-test was used to compare mean beta deviation against zero in each site after controlling for species pool

Site	Latitude	Mean beta deviation for epiphytic fungi	<i>P</i> values for epiphytic fungi	Mean beta deviation for endophytic fungi	<i>P</i> values for endophytic fungi
BB	21.36	2.12383696	< 0.001	4.559741	< 0.001
NG	22.13	1.95168449	0.001	3.598767	< 0.001
NBH	22.14	2.60926298	< 0.001	5.129099	< 0.001
DHS	23.1	1.24515301	0.003	2.927035	< 0.001
ALS	24.32	2.83363977	< 0.001	4.39834	< 0.001
JLS	24.57	2.33205683	< 0.001	5.182276	< 0.001
MLun	25.8	2.56685761	< 0.001	5.100587	< 0.001
GTS	29.25	1.36094254	0.008	4.598654	< 0.001
LS	29.56	1.88746614	< 0.001	4.264561	< 0.001
TTS	29.81	0.71785761	0.041	5.043427	< 0.001
SNJ	31.33	1.80402399	< 0.001	4.99458	< 0.001
JGS	31.81	-0.04685183	0.935	3.942876	< 0.001
BTM	33.49	1.23768819	< 0.001	2.590567	< 0.001
HGS	33.5	0.84374996	0.011	3.146135	< 0.001
TYS	36.66	1.49364742	< 0.001	1.851822	< 0.001
DLS	39.97	0.68109561	0.013	1.811669	< 0.001
CBS	42.4	2.04628446	< 0.001	3.950014	< 0.001
ML	43.49	2.21384378	< 0.001	3.133542	< 0.001
MES	45.25	1.18542866	0.002	3.363481	< 0.001
FL	48.19	2.64320682	< 0.001	5.332166	< 0.001
MH	53.33	1.25262573	0.007	5.576547	< 0.001