

**Table S1** Total heterogeneity ( $Q_T$ ), between-group heterogeneity ( $Q_B$ ) and with-in group heterogeneity ( $Q_w$ ) of effect size in studies under different stresses

Stress type	Response variable	$Q_t$	$df_t$	$P_t$	$Q_b$	$df_b$	$P_{random}$	$Q_w$	$df_w$	$P_w$
No stress	Biomass	3286.7695	2209	0.00000	109.4700	1	<b>0.00000</b>	3177.2995	2208	0.00000
	P content	733.8695	508	0.00000	12.2015	1	<b>0.00048</b>	721.6680	507	0.00000
	N content	335.2068	205	0.00000	5.9618	1	<b>0.01462</b>	329.2451	204	0.00000
Abiotic stress	Biomass	1757.4030	1119	0.00000	33.7652	1	<b>0.00000</b>	1723.6379	1118	0.00000
	P content	354.3393	232	0.00000	8.3003	1	<b>0.00396</b>	346.0389	231	0.00000
	N content	203.8337	102	0.00000	24.0893	1	<b>0.00000</b>	179.7444	101	0.00000
Overall biotic stress	Plant performance	434.2204	320	0.00002	8.3597	1	<b>0.00384</b>	425.8607	319	0.00006
	Stressor performance	431.0679	341	0.00066	14.0353	1	<b>0.00018</b>	417.0327	340	0.00270
	Mycorrhiza performance	192.2511	170	0.11632	10.9551	1	<b>0.00093</b>	181.2961	169	0.24531
Nematode	Plant performance	350.3731	126	0.00000	5.9888	1	0.12160	344.3843	125	0.00000
	Stressor performance	584.3551	114	0.00000	22.5287	1	<b>0.02880</b>	561.8264	113	0.00000
	Mycorrhiza performance	199.3688	80	0.00000	17.5981	1	<b>0.00720</b>	181.7707	79	0.00000
Fungal pathogen	Plant performance	393.4482	158	0.00000	12.9353	1	<b>0.03120</b>	380.5129	157	0.00000
	Stressor performance	1090.2638	202	0.00000	106.8553	1	<b>0.00020</b>	983.4085	201	0.00000
	Mycorrhiza performance	900.6383	69	0.00000	76.0966	1	<b>0.00000</b>	824.5417	68	0.00000